

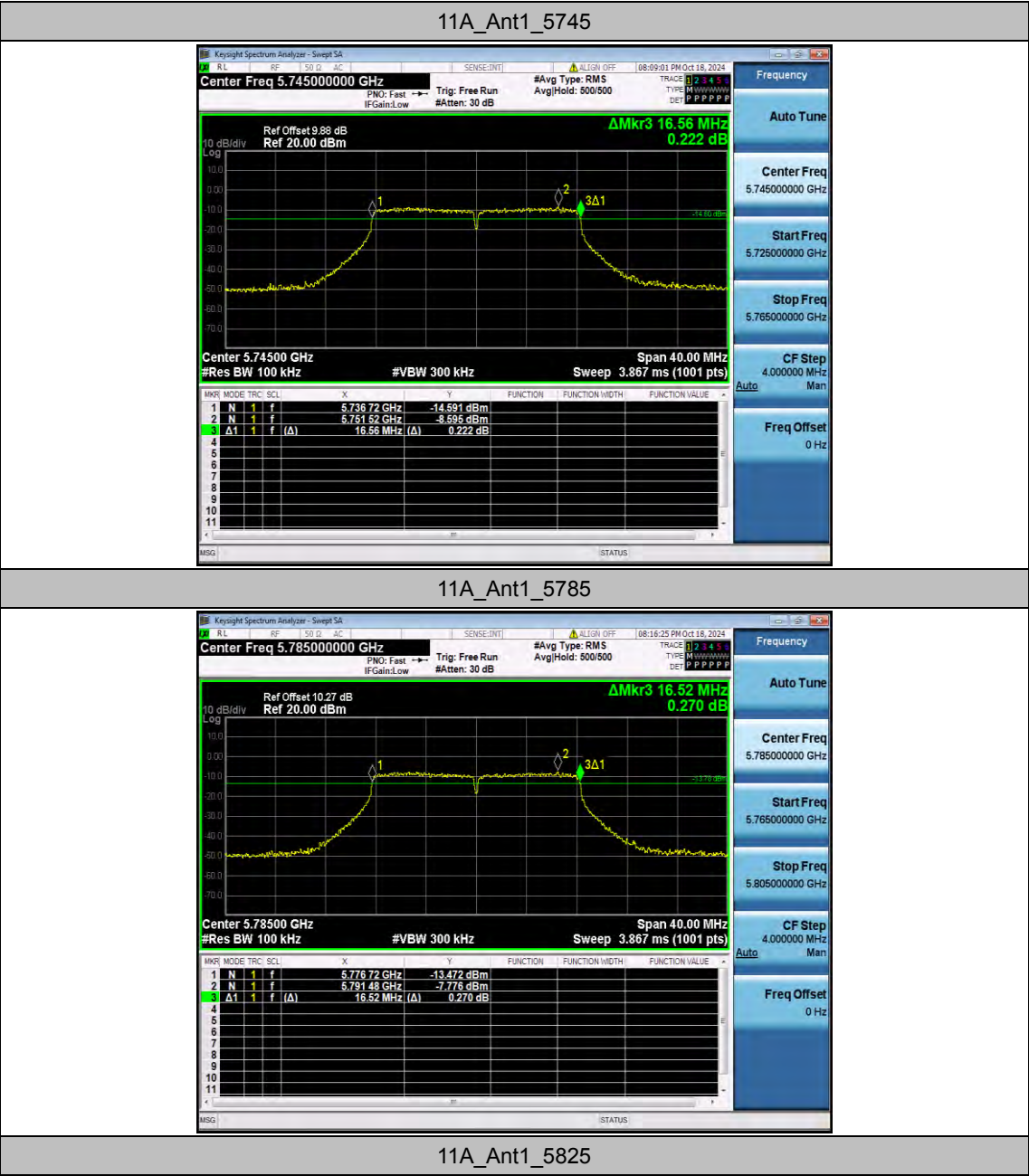
Case No. : <u>CTA24102501804</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.10.18</u>	Test Engineer: <u>Evan ouyang</u>

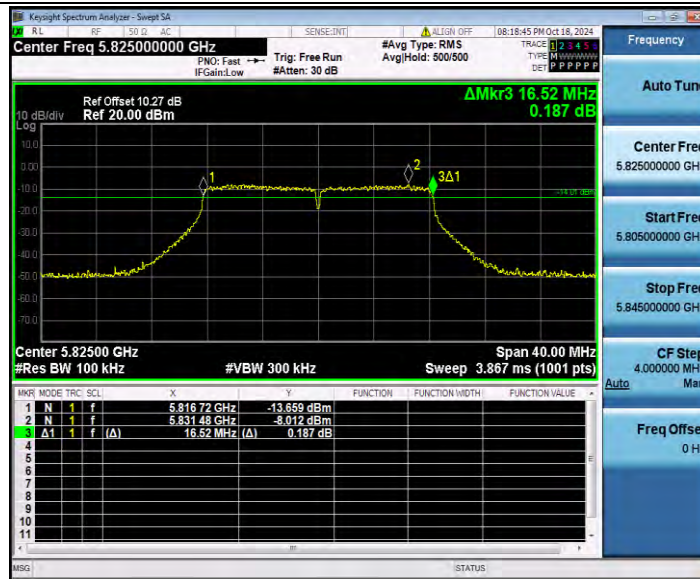
Appendix E.1: Min emission bandwidth

Test Result B4

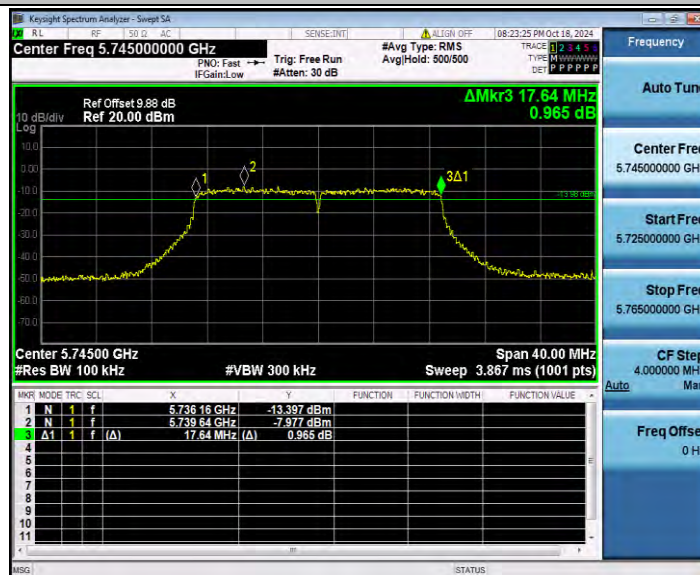
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.560	5736.720	5753.280	0.5	PASS
		5785	16.520	5776.720	5793.240	0.5	PASS
		5825	16.520	5816.720	5833.240	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.680	5816.160	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.680	5736.160	5753.840	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11AC40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	76.000	5736.920	5812.920	0.5	PASS

Test Graphs B4

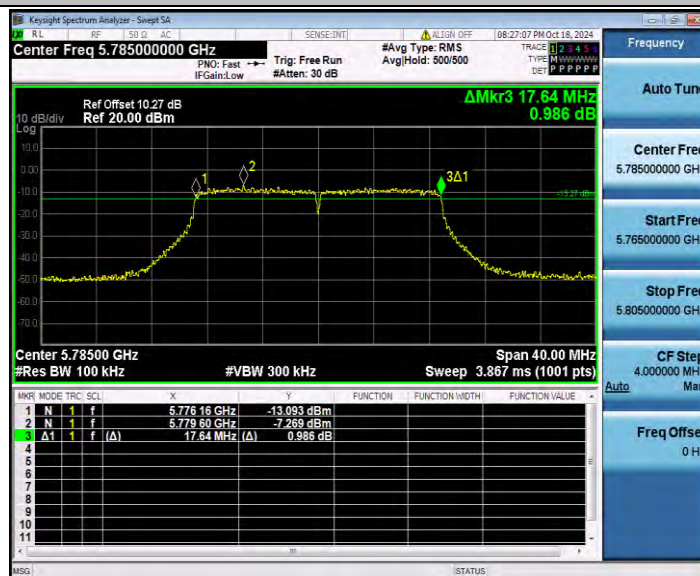


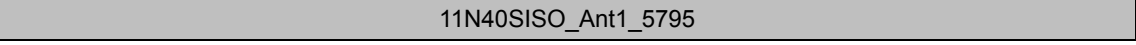
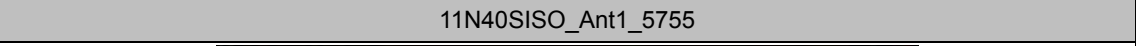


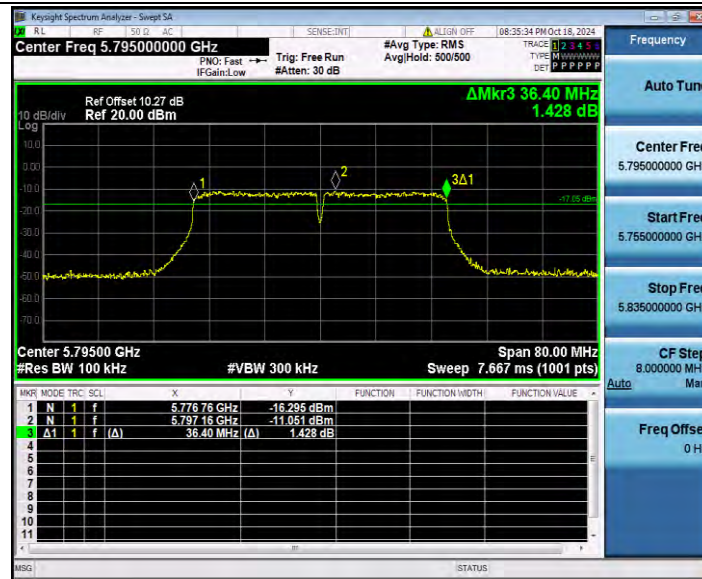
11N20SISO_Ant1_5745



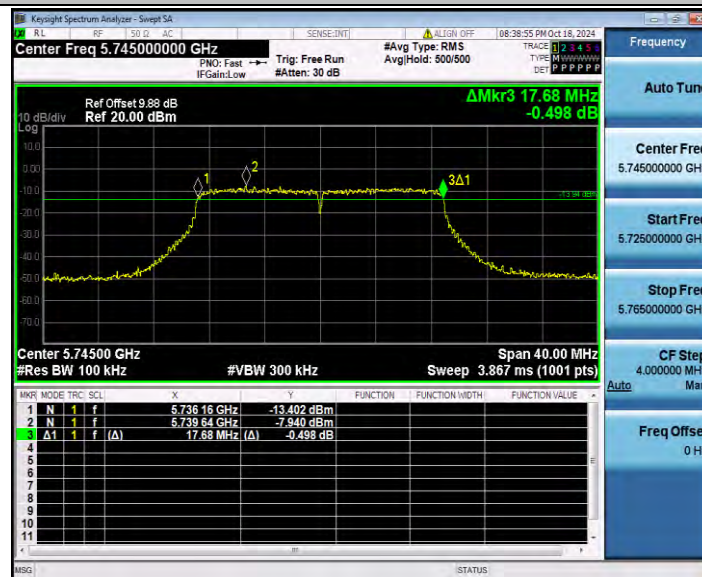
11N20SISO_Ant1_5785



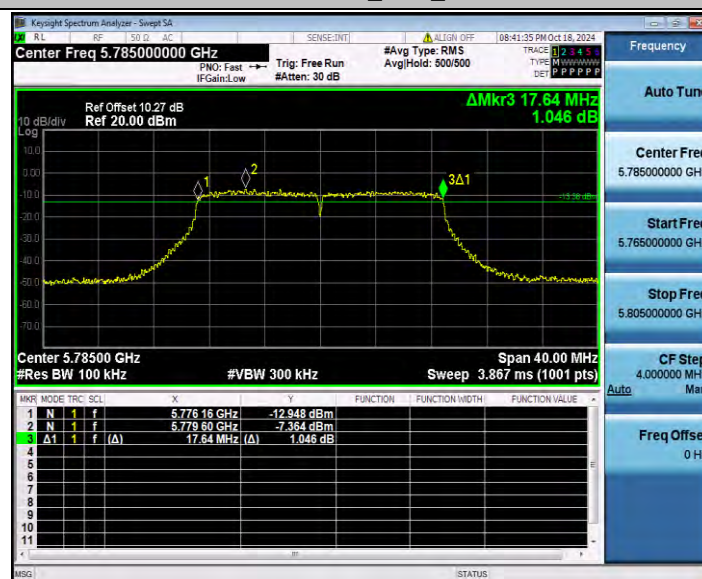




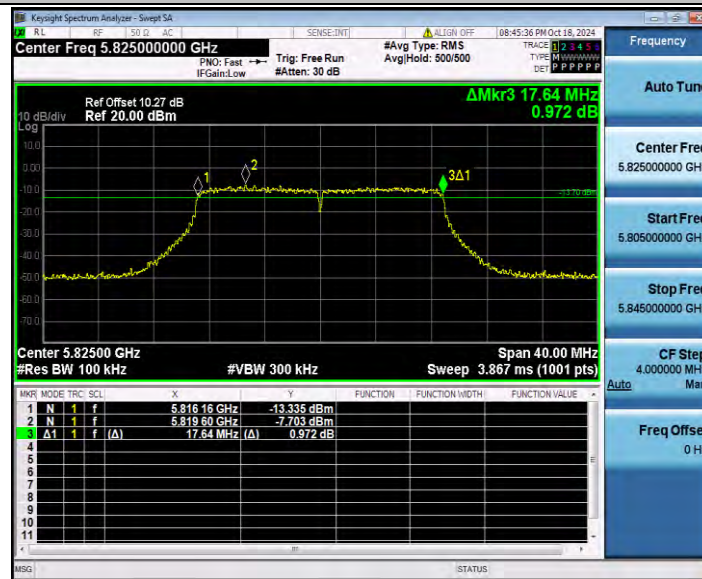
11AC20SISO_Ant1_5745



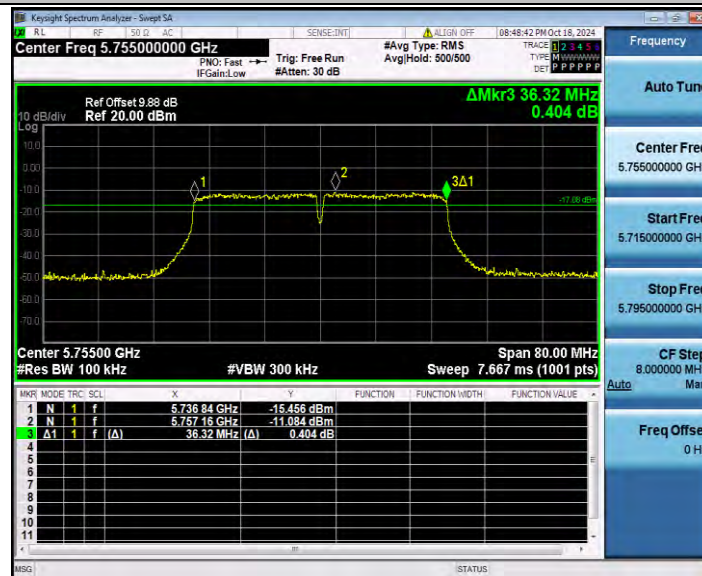
11AC20SISO_Ant1_5785



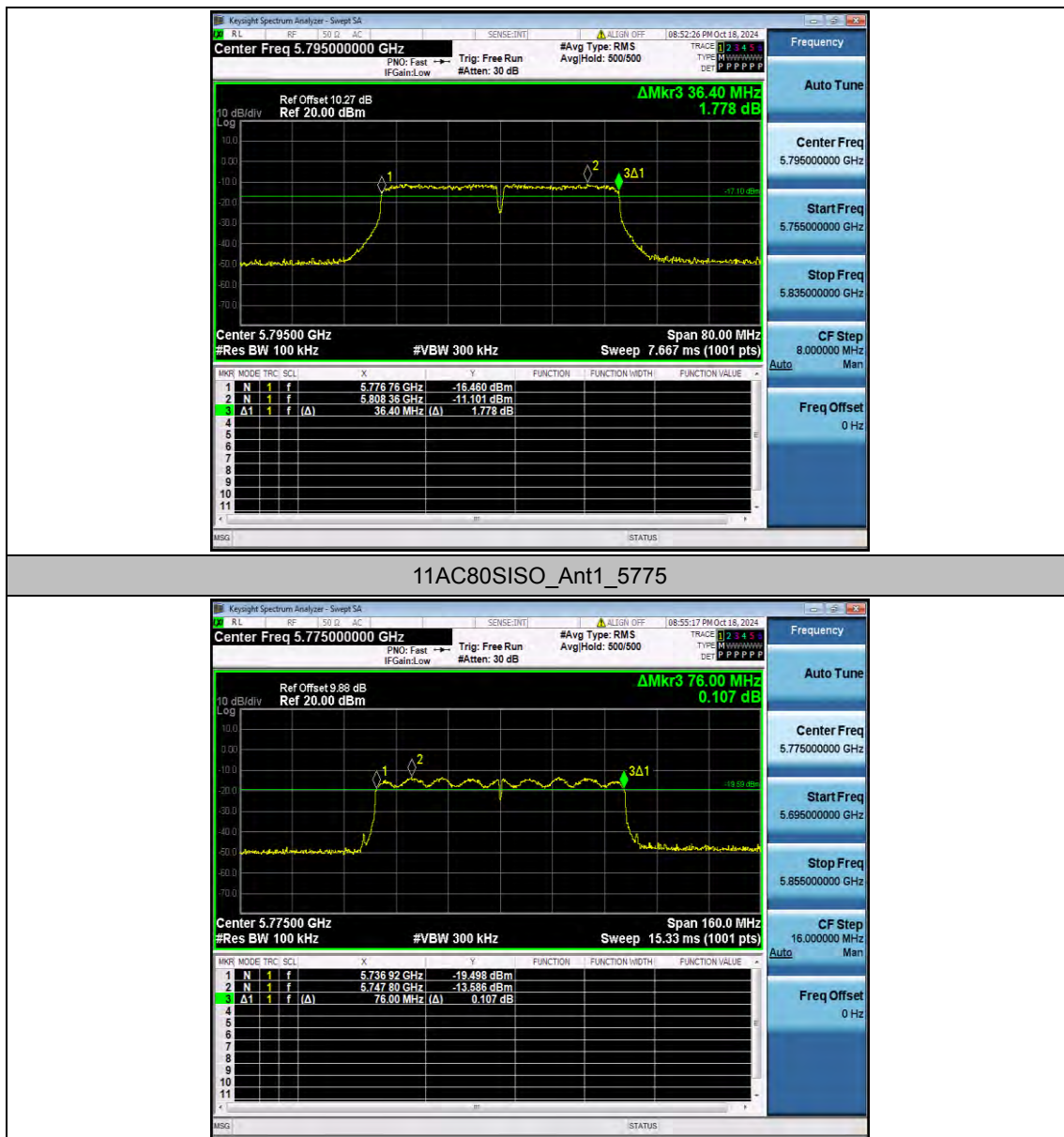
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



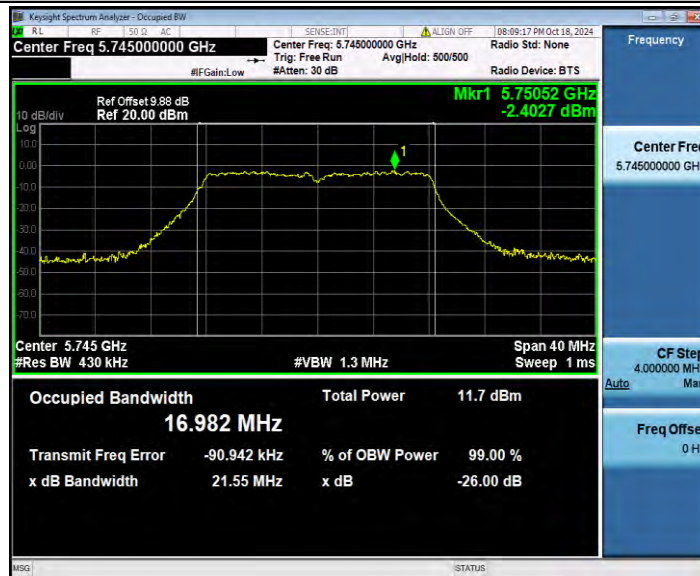
Appendix E.2: Occupied channel bandwidth

Test Result

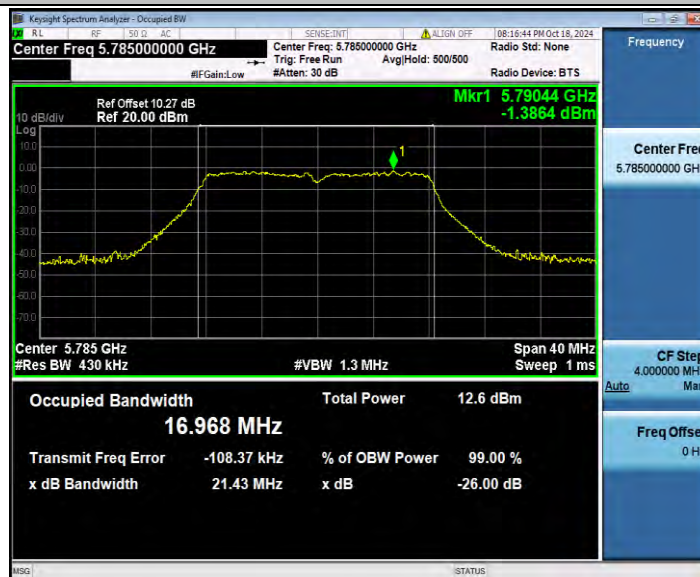
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.982	5736.4181	5753.4001	---	---
		5785	16.968	5776.4076	5793.3756	---	---
		5825	16.968	5816.3977	5833.3657	---	---
11N20SISO	Ant1	5745	17.937	5735.9901	5753.9271	---	---
		5785	17.926	5775.9888	5793.9148	---	---
		5825	17.925	5815.9812	5833.9062	---	---
11N40SISO	Ant1	5755	36.577	5736.7653	5773.3423	---	---
		5795	36.598	5776.6813	5813.2793	---	---
11AC20SISO	Ant1	5745	17.959	5735.9968	5753.9558	---	---
		5785	17.961	5775.9780	5793.9390	---	---
		5825	17.961	5815.9722	5833.9332	---	---
11AC40SISO	Ant1	5755	36.605	5736.7501	5773.3551	---	---
		5795	36.571	5776.6899	5813.2609	---	---
11AC80SISO	Ant1	5775	75.352	5737.3395	5812.6915	---	---

Test Graphs

11A_Ant1_5745



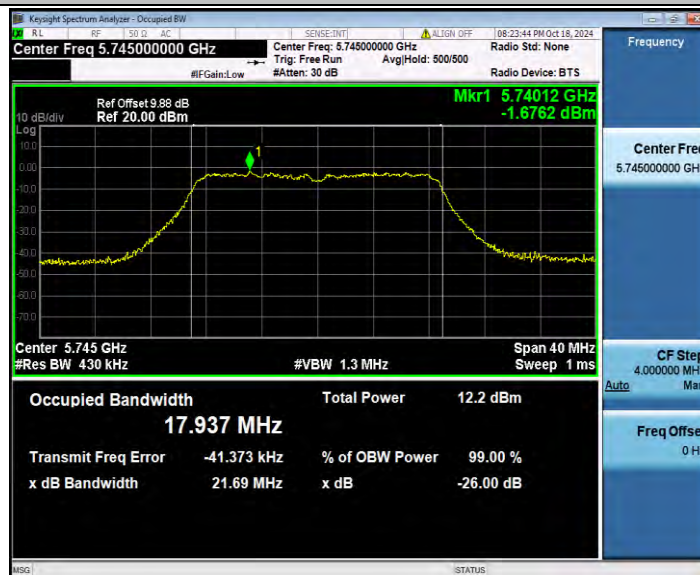
11A_Ant1_5785



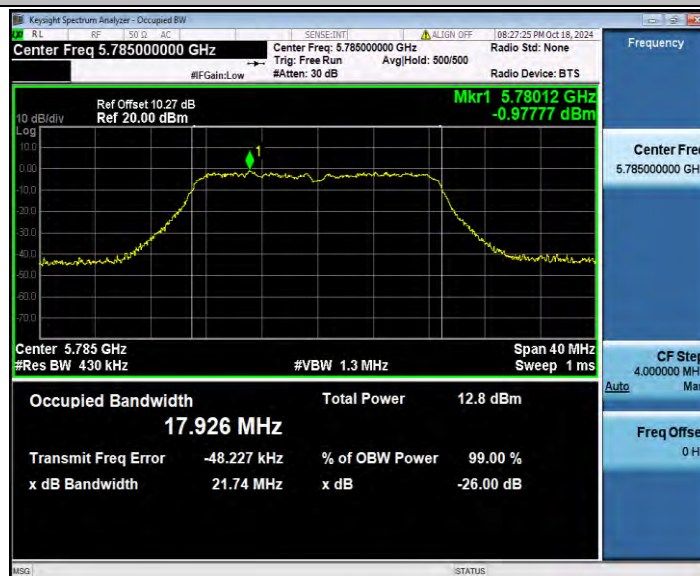
11A_Ant1_5825



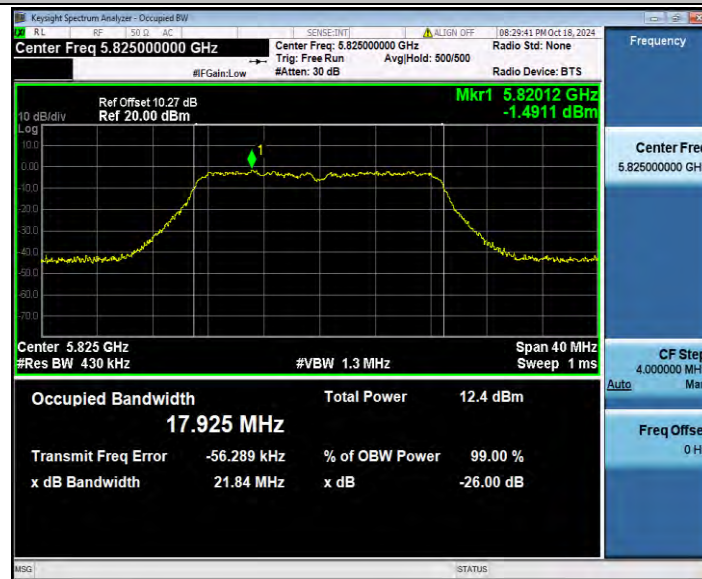
11N20SISO_Ant1_5745



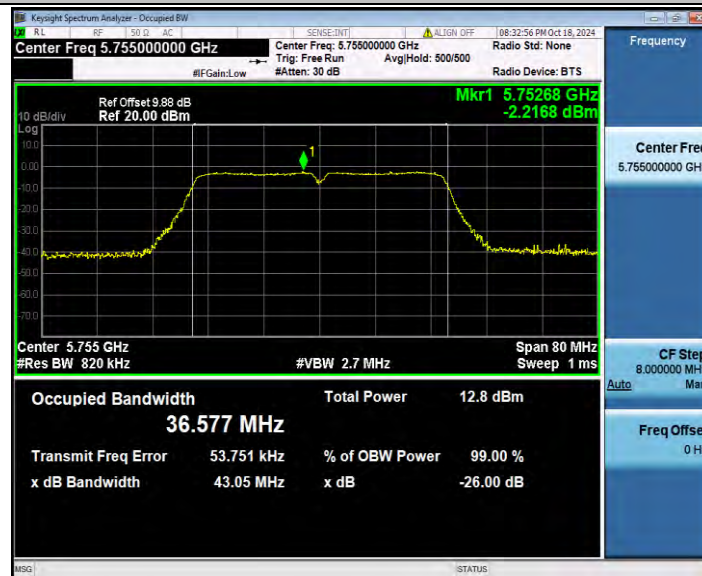
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



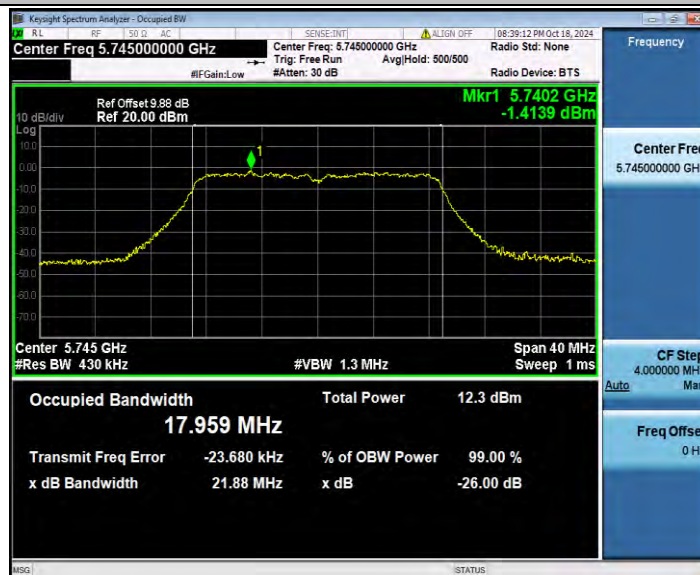
11N40SISO_Ant1_5755



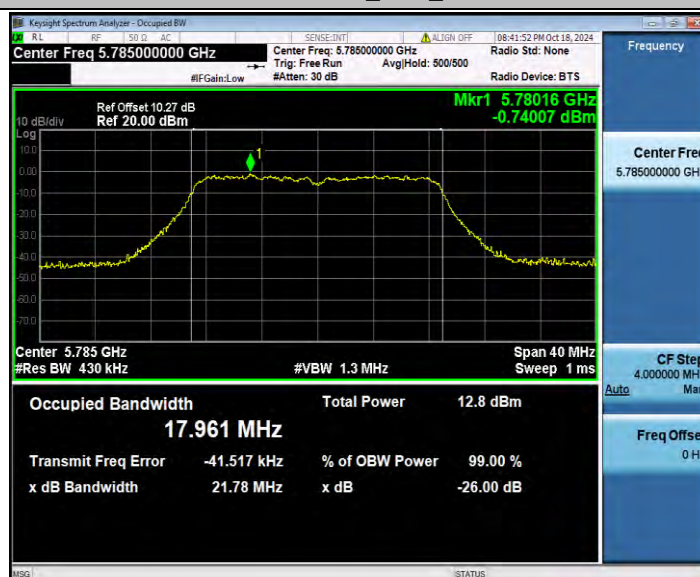
11N40SISO_Ant1_5795



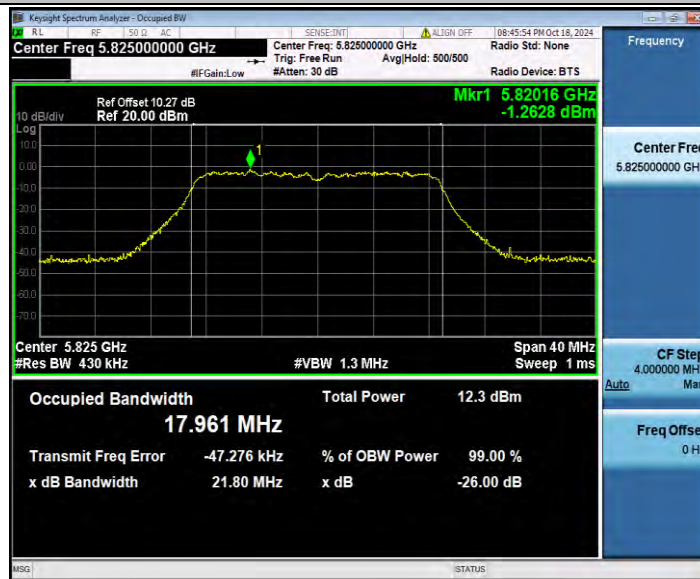
11AC20SISO_Ant1_5745



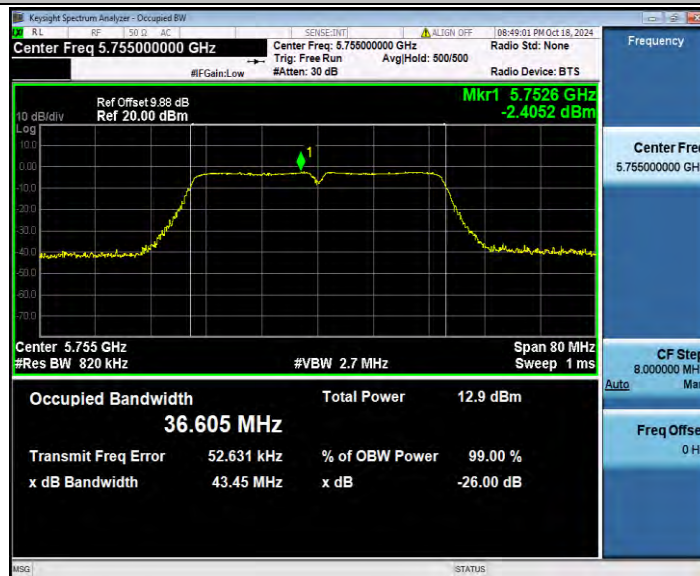
11AC20SISO_Ant1_5785



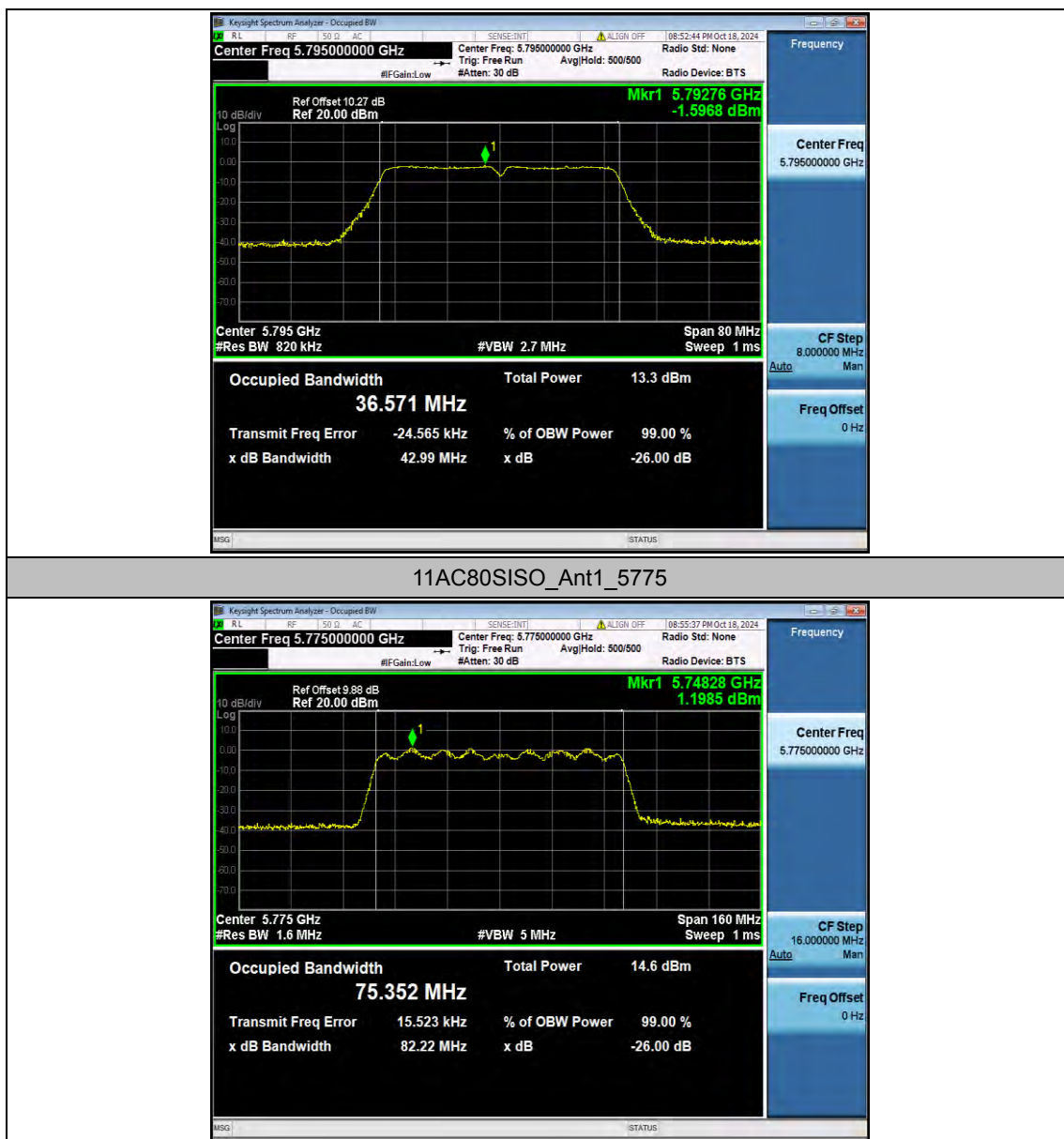
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



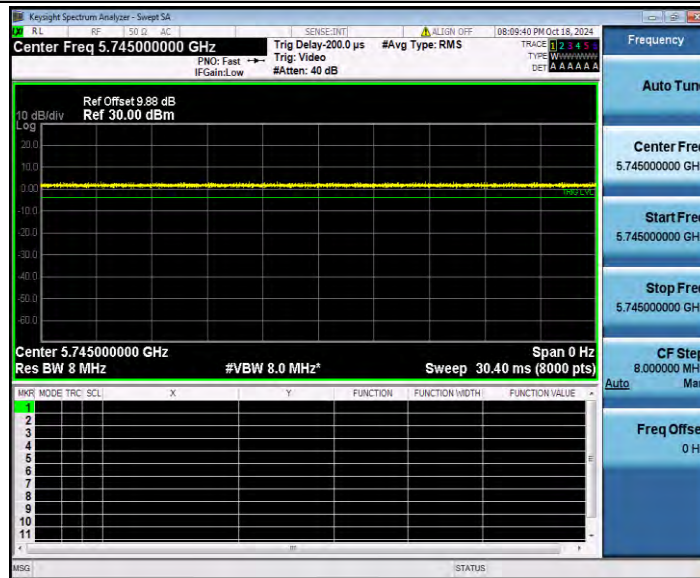
Appendix E.3: Duty Cycle

Test Result

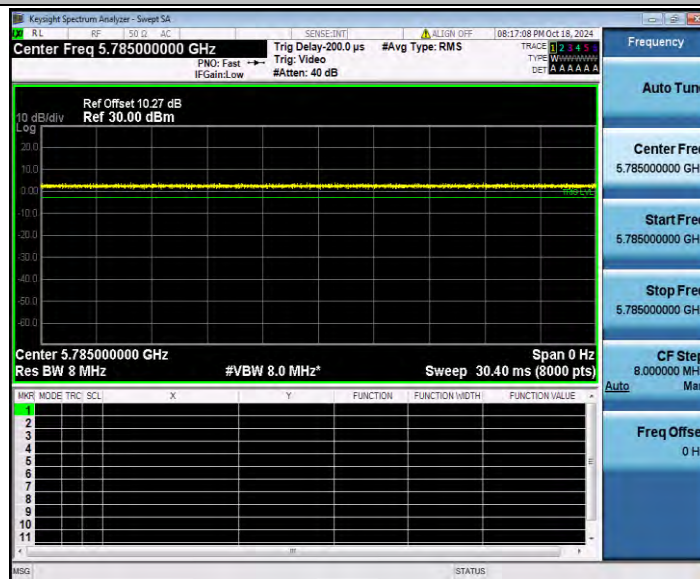
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5775	30.00	30.00	100.00	0.00	0.03

Test Graphs

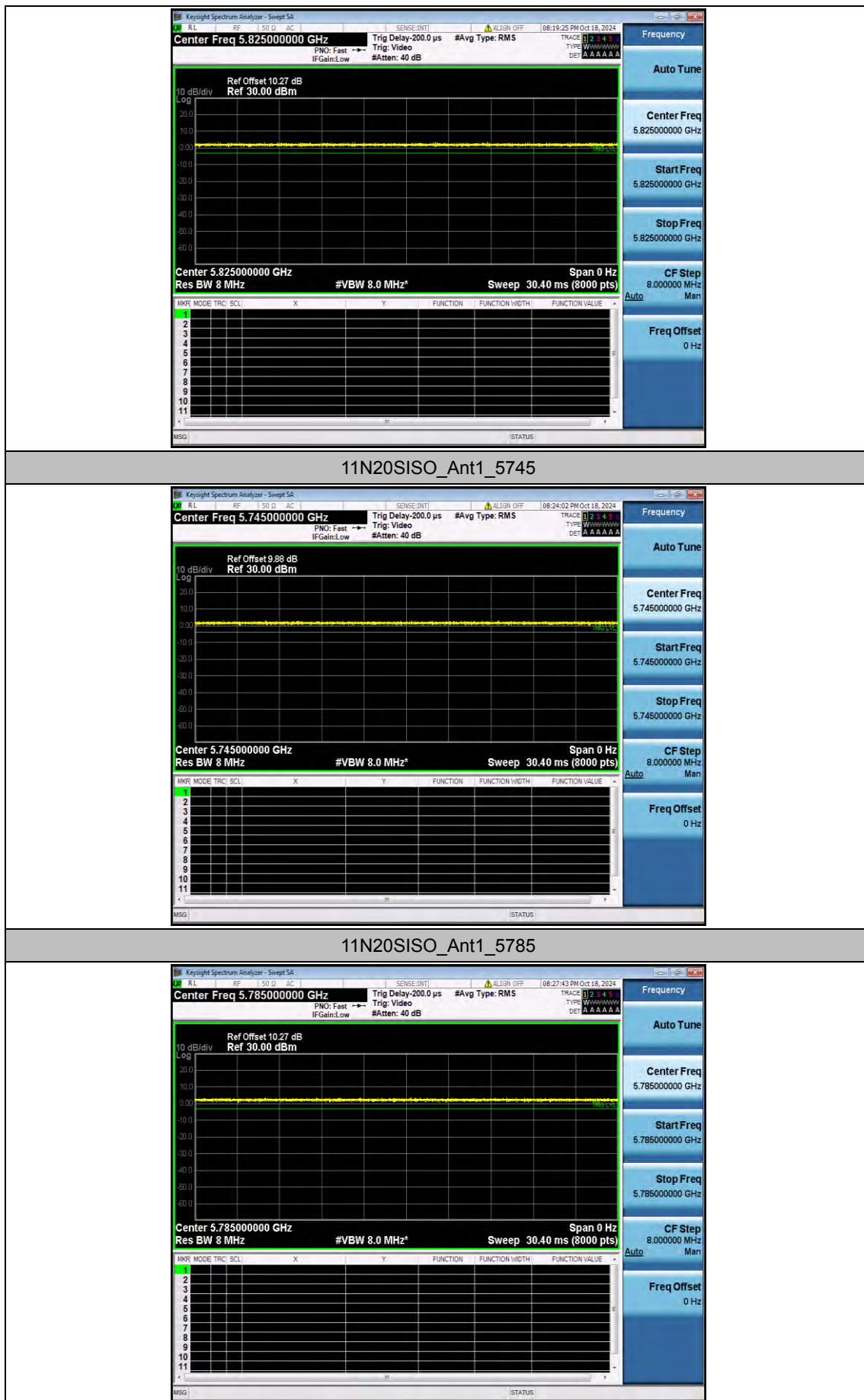
11A_Ant1_5745



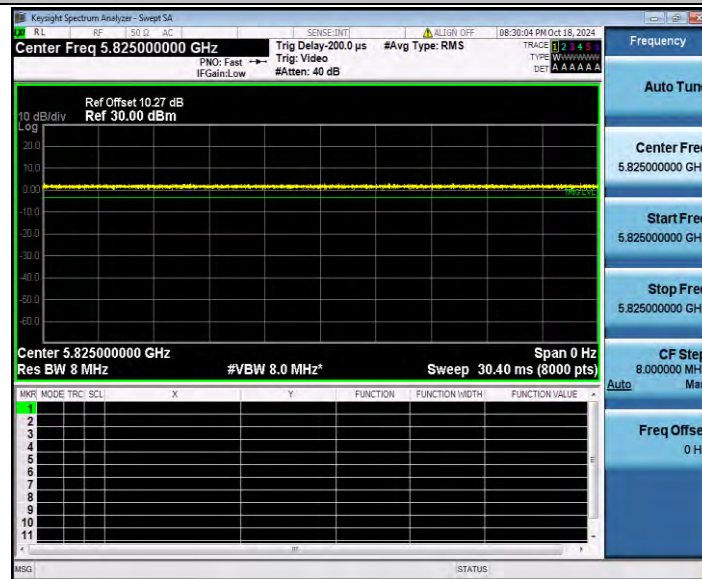
11A_Ant1_5785



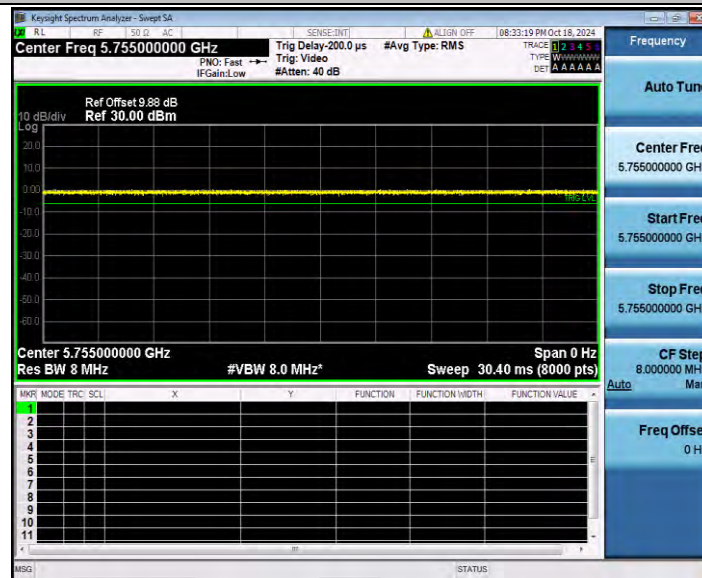
11A_Ant1_5825



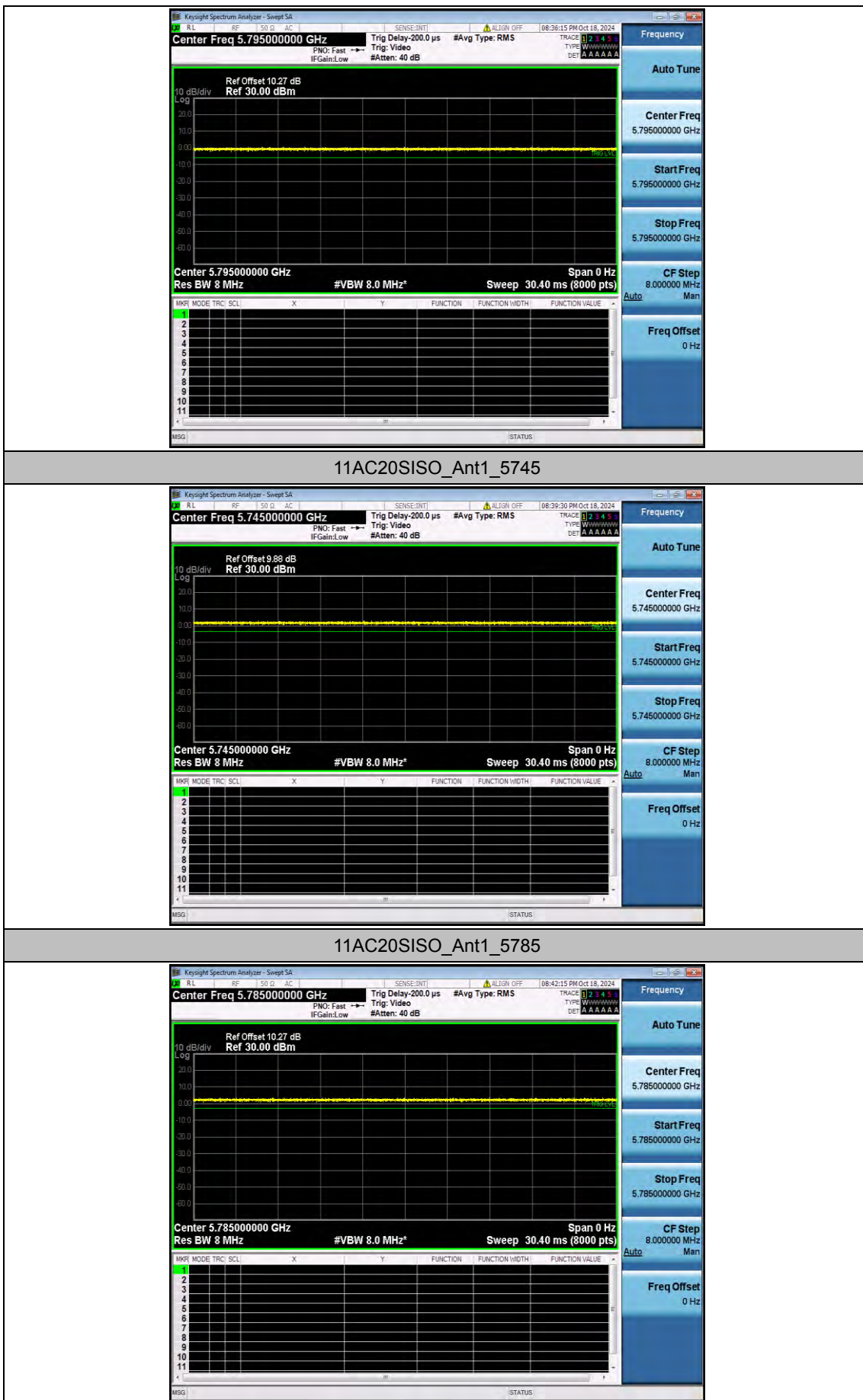
11N20SISO_Ant1_5825



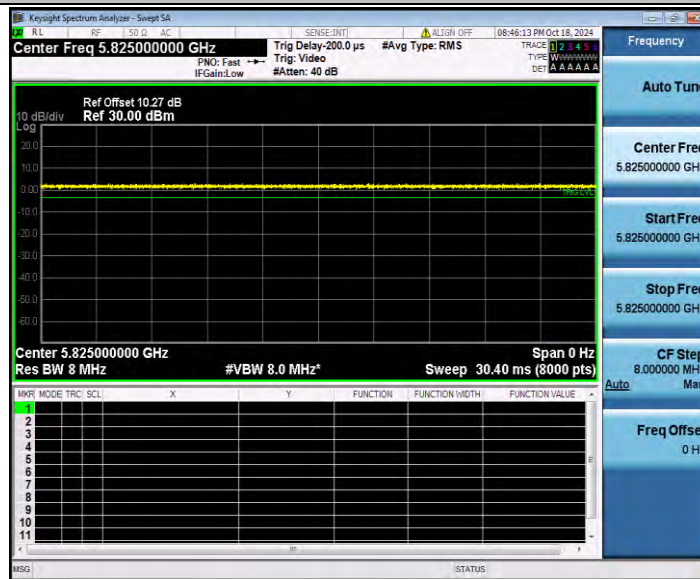
11N40SISO_Ant1_5755



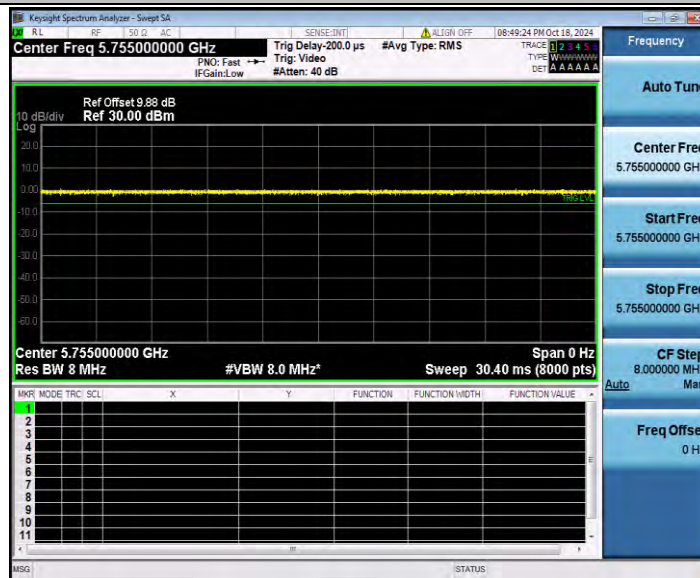
11N40SISO_Ant1_5795



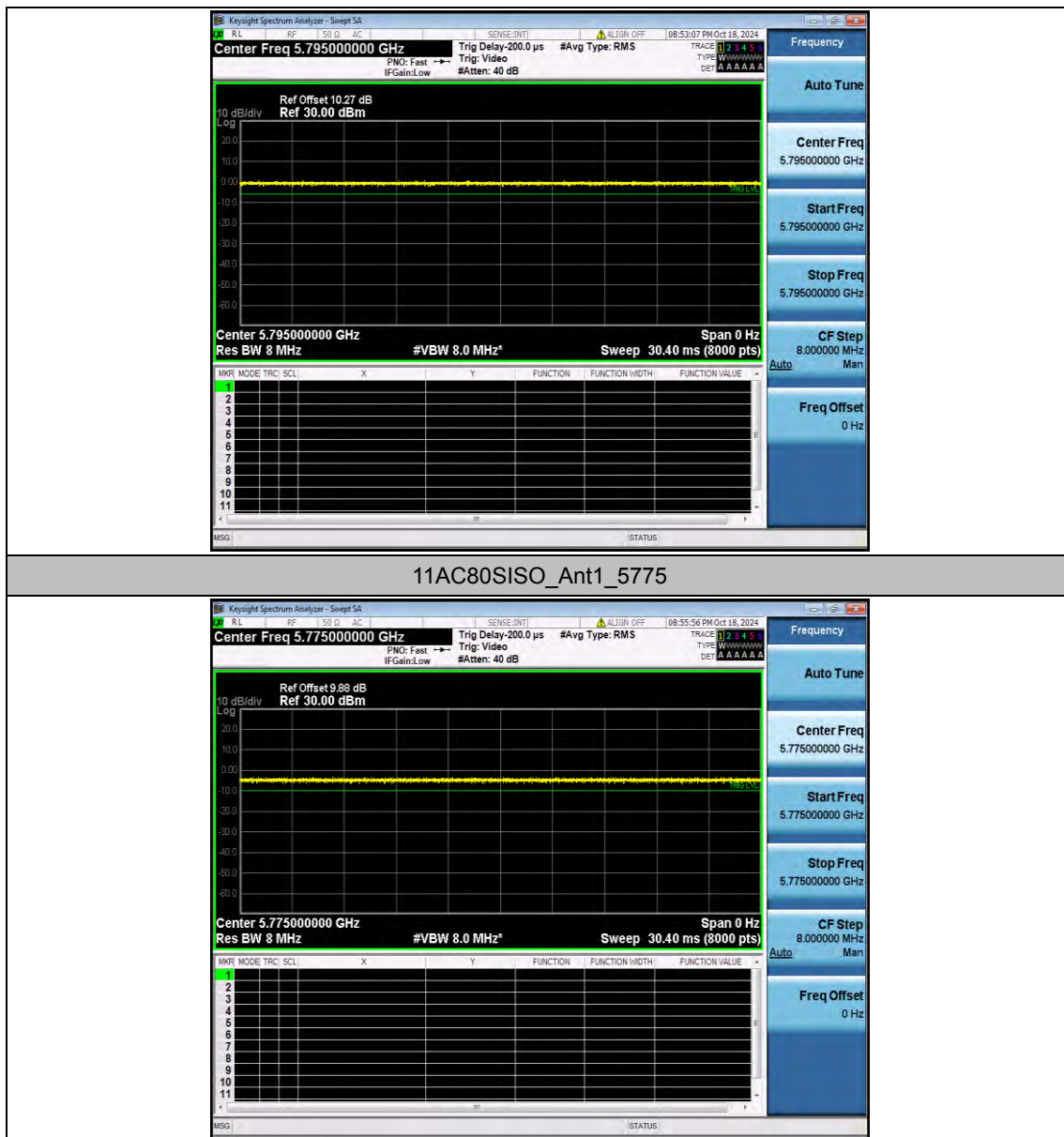
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	5.28	100.00	0.00	5.28	≤30.00	PASS
		5785	6.15	100.00	0.00	6.15	≤30.00	PASS
		5825	5.83	100.00	0.00	5.83	≤30.00	PASS
11N20SISO	Ant1	5745	5.47	100.00	0.00	5.47	≤30.00	PASS
		5785	6.05	100.00	0.00	6.05	≤30.00	PASS
		5825	5.68	100.00	0.00	5.68	≤30.00	PASS
11N40SISO	Ant1	5755	5.61	100.00	0.00	5.61	≤30.00	PASS
		5795	6.03	100.00	0.00	6.03	≤30.00	PASS
11AC20SISO	Ant1	5745	5.60	100.00	0.00	5.60	≤30.00	PASS
		5785	6.09	100.00	0.00	6.09	≤30.00	PASS
		5825	5.65	100.00	0.00	5.65	≤30.00	PASS
11AC40SISO	Ant1	5755	5.72	100.00	0.00	5.72	≤30.00	PASS
		5795	6.13	100.00	0.00	6.13	≤30.00	PASS
11AC80SISO	Ant1	5775	5.72	100.00	0.00	5.72	≤30.00	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the data.

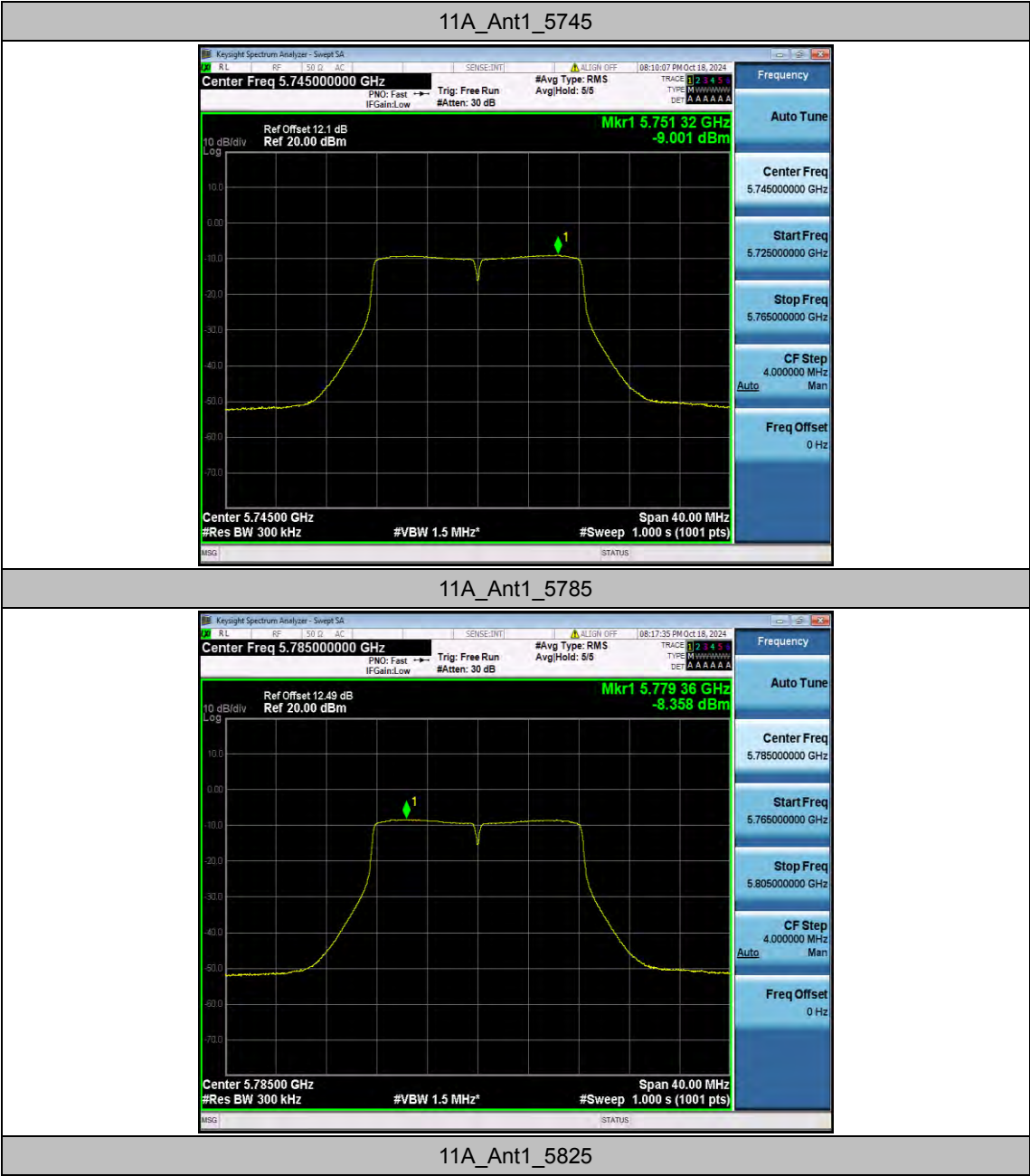
Appendix E.5: Maximum power spectral density

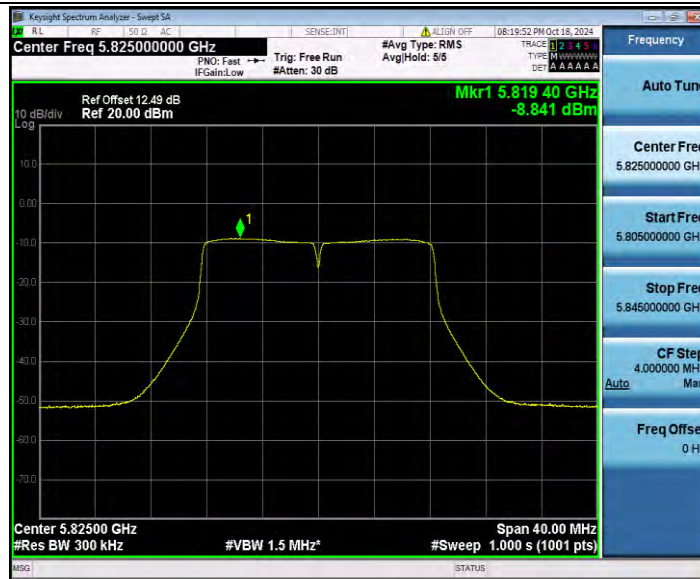
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-9.00	≤30.00	PASS
		5785	-8.36	≤30.00	PASS
		5825	-8.84	≤30.00	PASS
11N20SISO	Ant1	5745	-8.95	≤30.00	PASS
		5785	-8.44	≤30.00	PASS
		5825	-8.97	≤30.00	PASS
11N40SISO	Ant1	5755	-11.98	≤30.00	PASS
		5795	-11.66	≤30.00	PASS
11AC20SISO	Ant1	5745	-9.05	≤30.00	PASS
		5785	-8.48	≤30.00	PASS
		5825	-8.96	≤30.00	PASS
11AC40SISO	Ant1	5755	-11.88	≤30.00	PASS
		5795	-11.60	≤30.00	PASS
11AC80SISO	Ant1	5775	-14.00	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

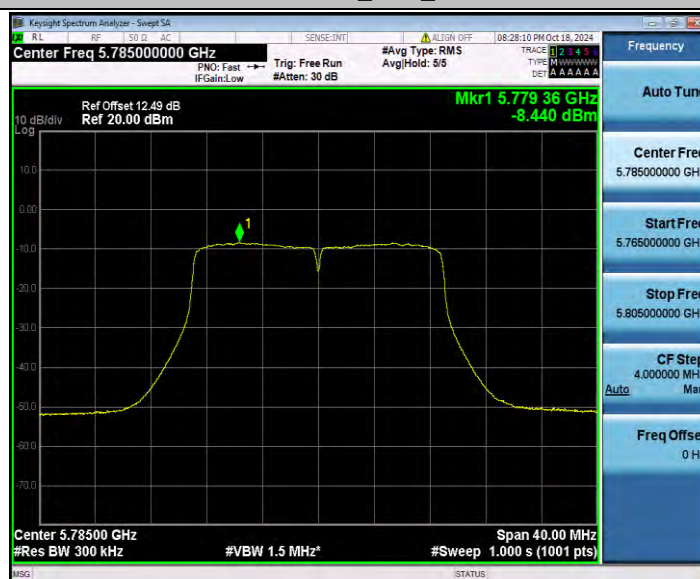




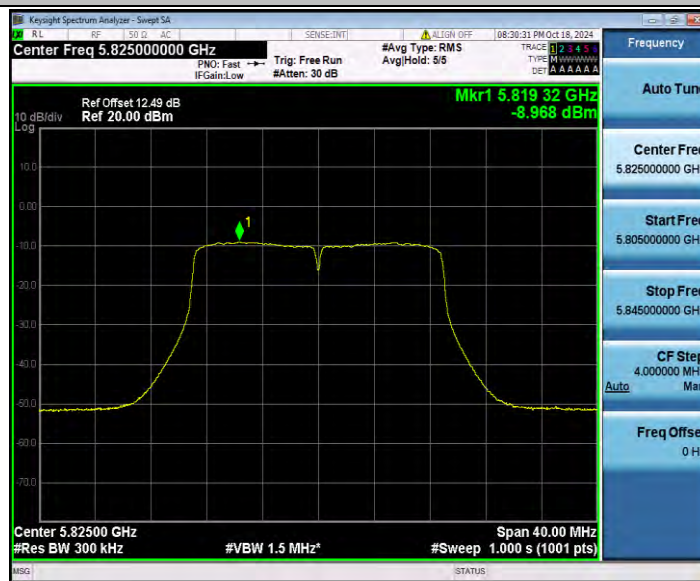
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



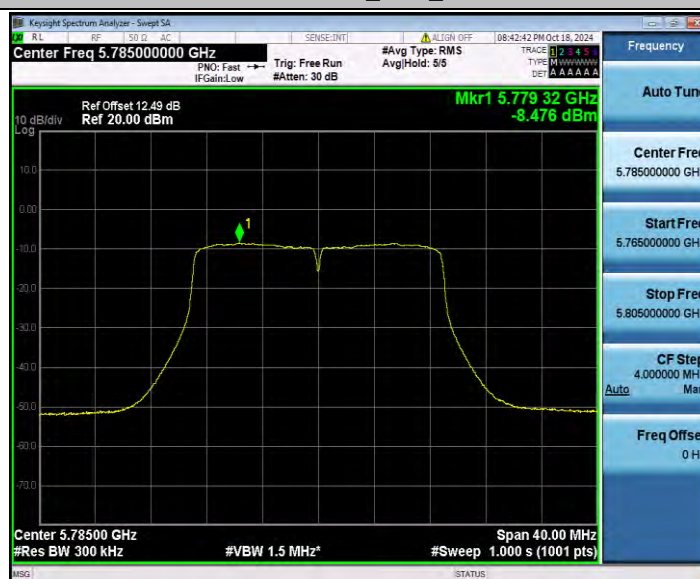
11N40SISO_Ant1_5795



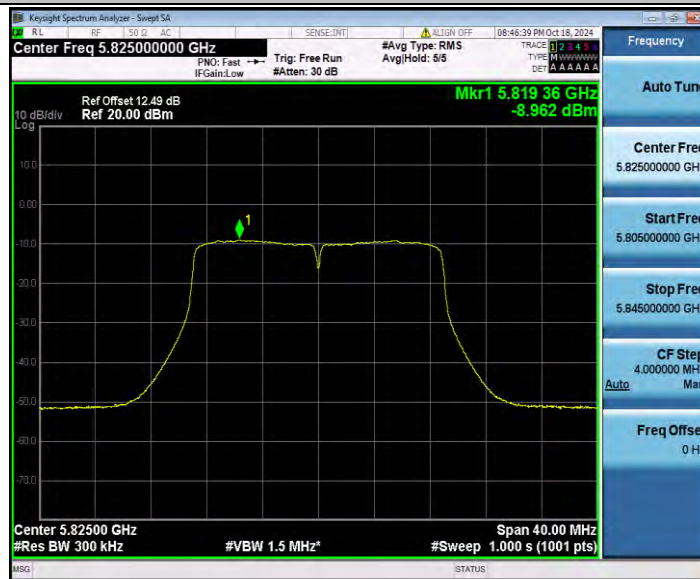
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



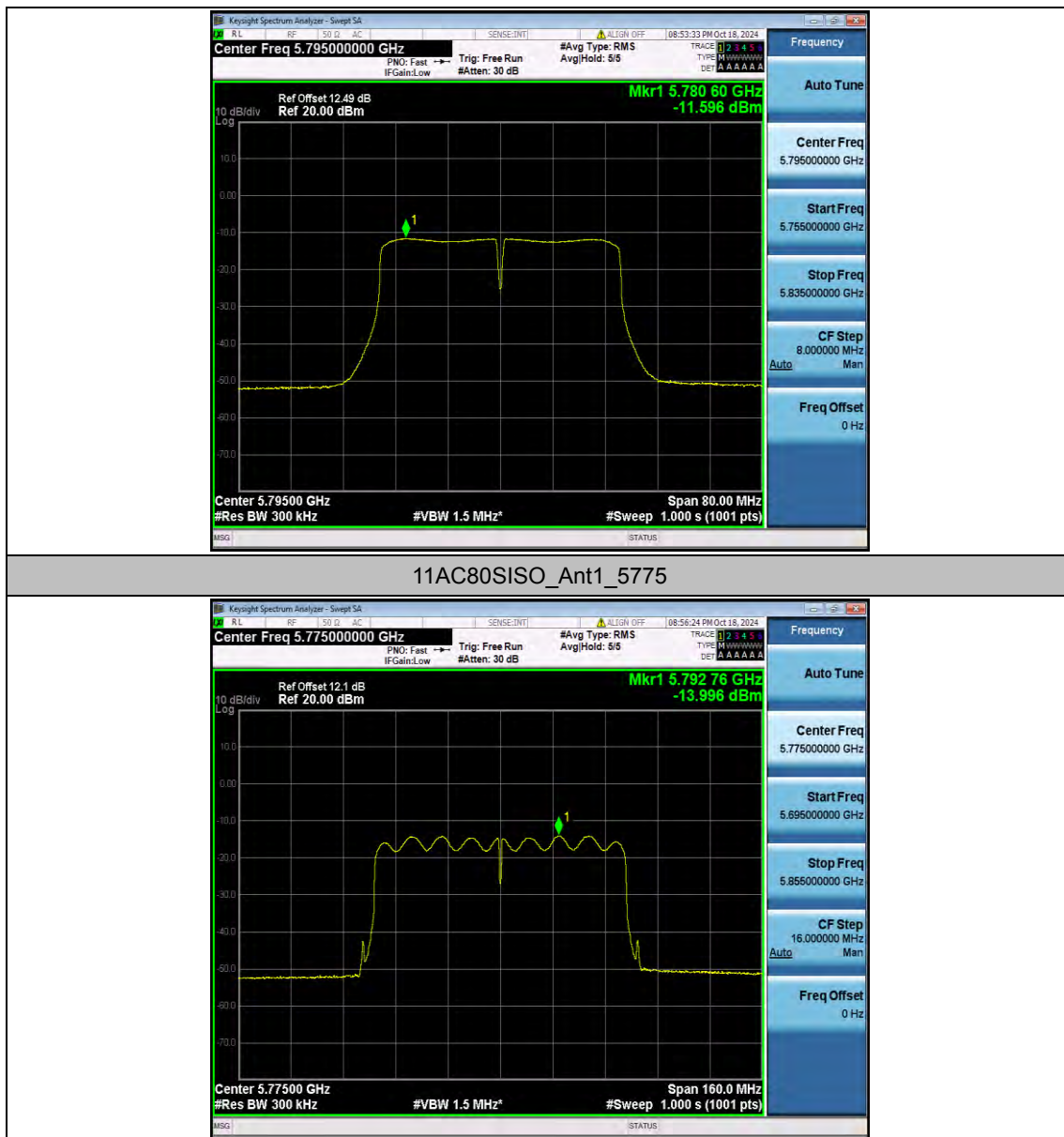
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



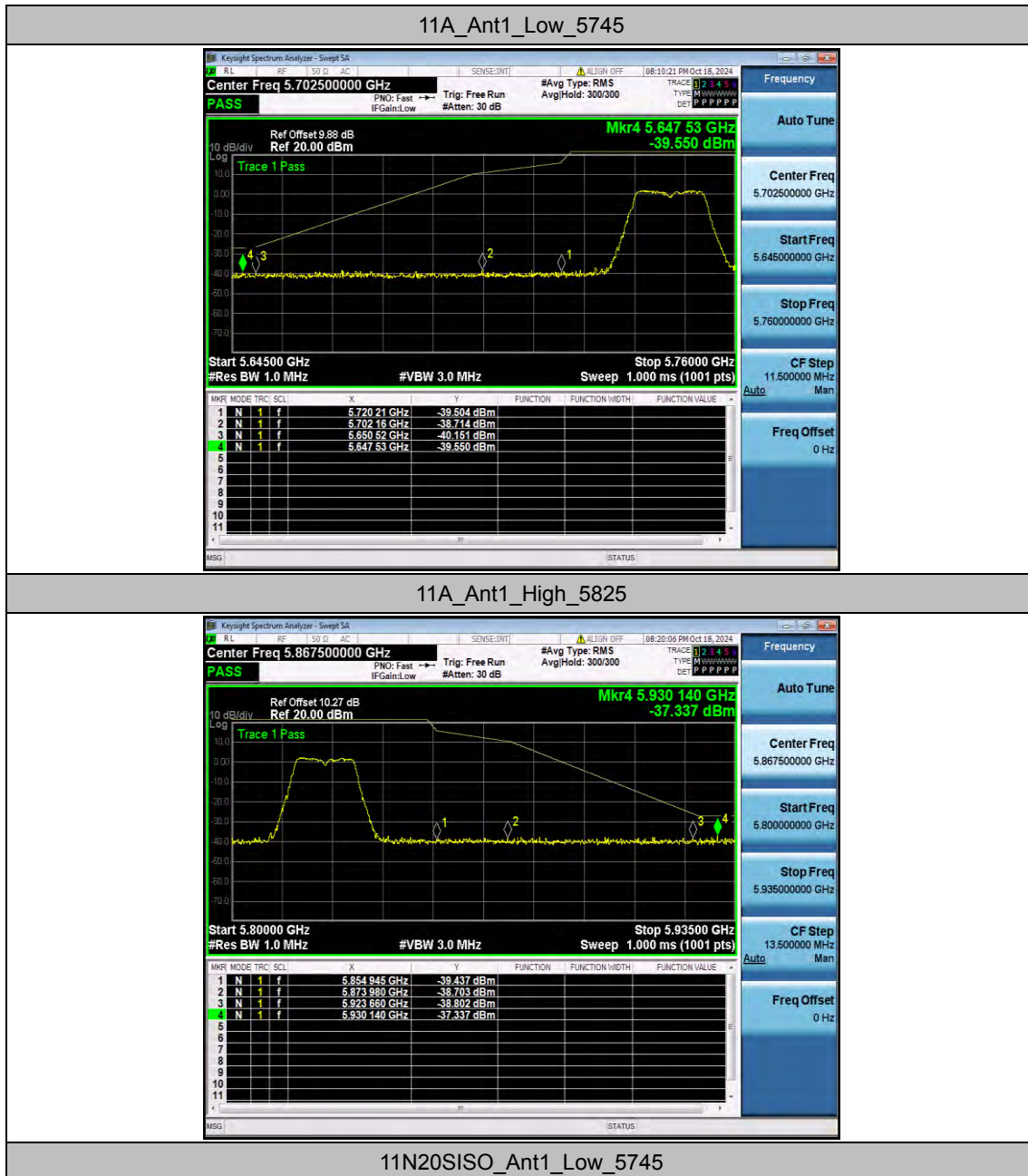
Appendix E.6: Band edge measurements

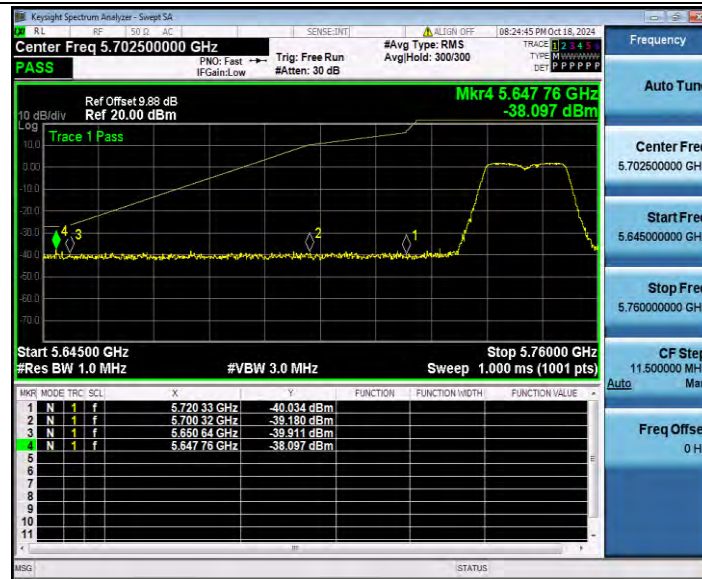
Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.15	≤-26.62	PASS
				5700~5720	-38.71	≤10.60	PASS
				5720~5725	-39.5	≤16.08	PASS
				5760~5650	-39.55	≤-27	PASS
		High	5825	5850~5855	-39.44	≤15.73	PASS
				5855~5875	-38.7	≤10.29	PASS
				5875~5925	-38.8	≤-26.01	PASS
				5925~5935	-37.34	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.91	≤-26.53	PASS
				5700~5720	-39.18	≤10.09	PASS
				5720~5725	-40.03	≤16.34	PASS
				5760~5650	-38.1	≤-27	PASS
		High	5825	5850~5855	-38.44	≤16.03	PASS
				5855~5875	-38.7	≤10.10	PASS
				5875~5925	-39.21	≤-26.91	PASS
				5925~5935	-38.37	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.27	≤-25.41	PASS
				5700~5720	-39.28	≤10.32	PASS
				5720~5725	-40.05	≤16.35	PASS
				5780~5650	-39.64	≤-27	PASS
		High	5795	5850~5855	-39.31	≤15.66	PASS
				5855~5875	-38.72	≤10.16	PASS
				5875~5925	-39.41	≤-26.95	PASS
				5925~5935	-38.39	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-39.14	≤-26.70	PASS
				5700~5720	-38.75	≤10.41	PASS
				5720~5725	-40.4	≤16.34	PASS
				5760~5650	-39.77	≤-27	PASS
		High	5825	5850~5855	-38.26	≤16.65	PASS
				5855~5875	-38.45	≤10.29	PASS
				5875~5925	-39.08	≤-26.61	PASS
				5925~5935	-37.95	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.75	≤-26.90	PASS
				5700~5720	-38.6	≤10.25	PASS
				5720~5725	-39.86	≤16.35	PASS
				5780~5650	-39.63	≤-27	PASS

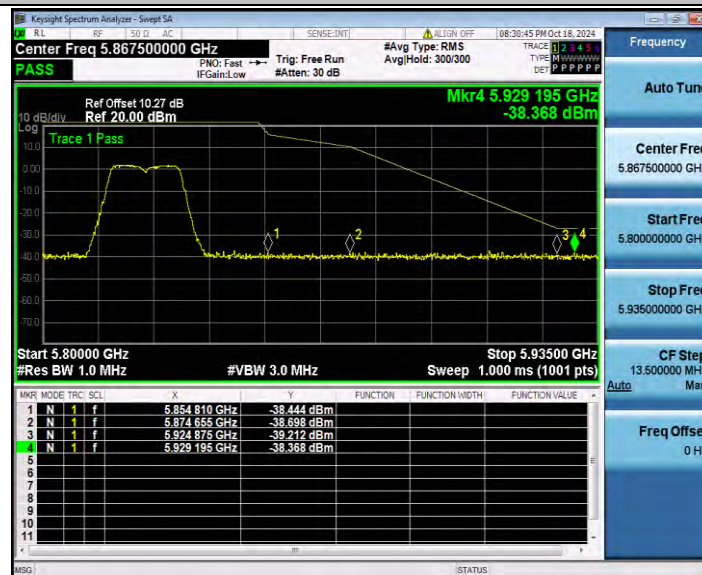
		High	5795	5850~5855	-39.55	≤ 15.66	PASS
				5855~5875	-38.36	≤ 10.53	PASS
				5875~5925	-39.79	≤ -26.71	PASS
				5925~5935	-38.13	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-40	≤ -26.34	PASS
				5700~5720	-39.53	≤ 10.14	PASS
				5720~5725	-39.85	≤ 16.71	PASS
				5800~5650	-39.5	≤ -27	PASS
		High	5775	5850~5855	-38.72	≤ 15.84	PASS
				5855~5875	-38.96	≤ 10.35	PASS
				5875~5925	-38.59	≤ -26.73	PASS
				5925~5935	-38.47	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



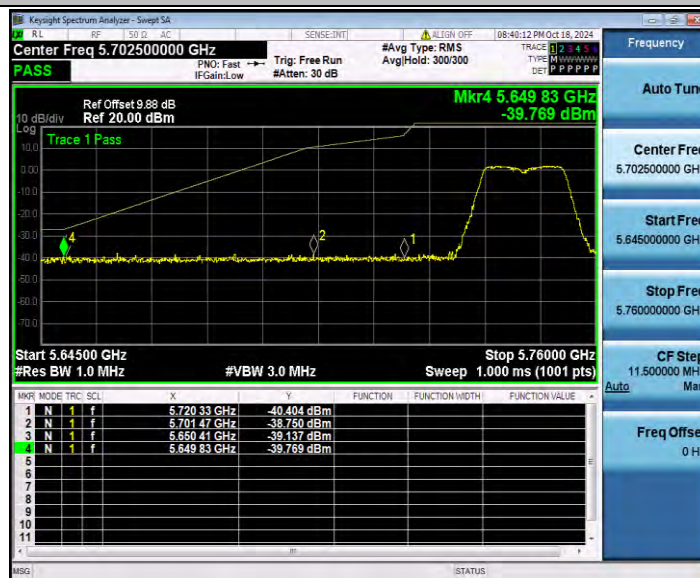
11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



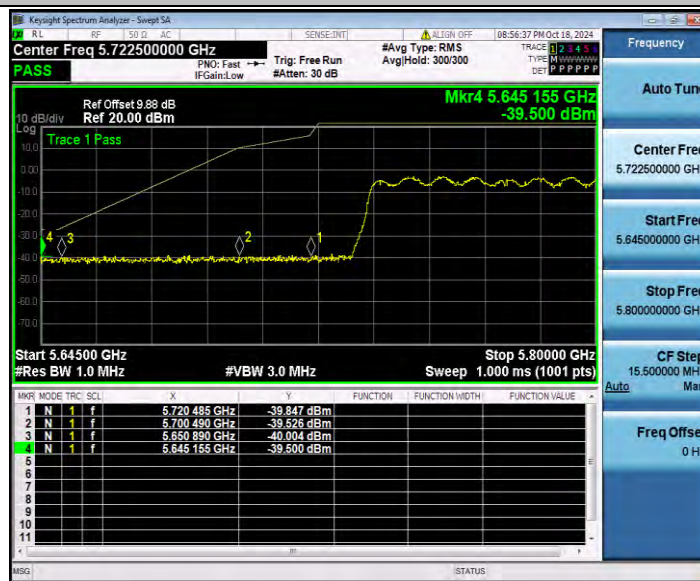
11AC40SISO_Ant1_Low_5755



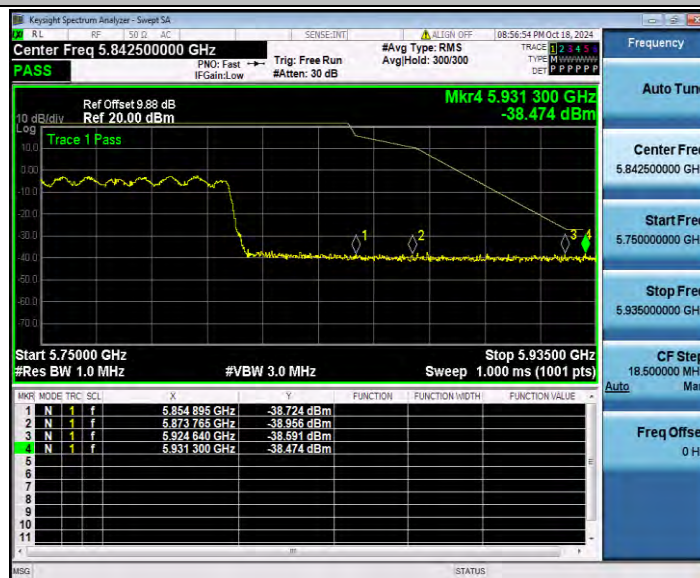
11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



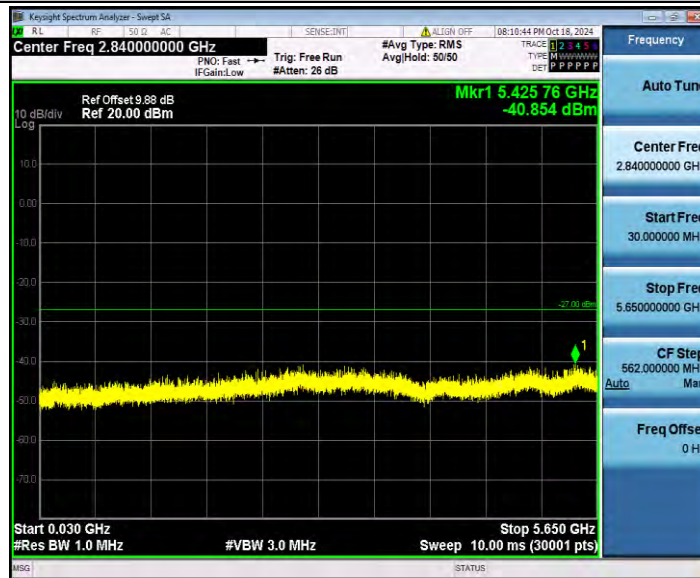
Appendix E.7: Conducted Spurious Emission

Test Result

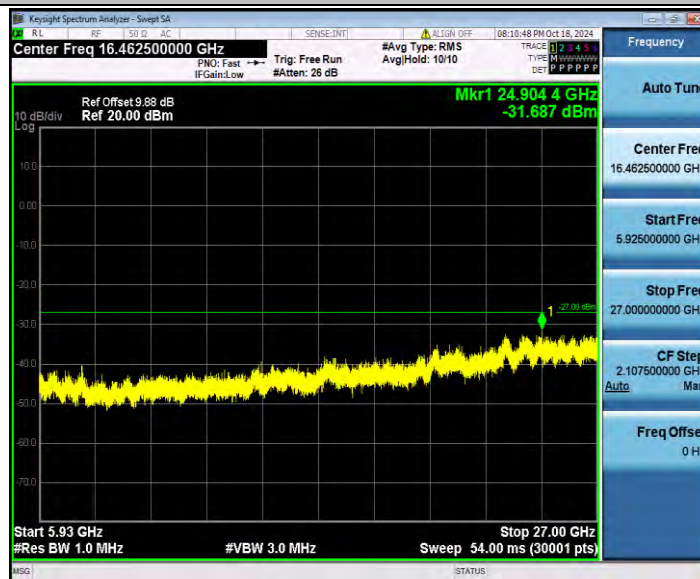
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5425.76	-40.85	≤-27	PASS
			5925~27000	24904.44	-31.69	≤-27	PASS
		5785	30~5650	4995.83	-39.53	≤-27	PASS
			5925~27000	24251.12	-31.57	≤-27	PASS
		5825	30~5650	5464.73	-39.79	≤-27	PASS
			5925~27000	23580.23	-31.13	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5389.98	-40.87	≤-27	PASS
			5925~27000	24811.71	-32.15	≤-27	PASS
		5785	30~5650	5414.52	-40.31	≤-27	PASS
			5925~27000	24333.31	-31	≤-27	PASS
		5825	30~5650	4979.16	-40.29	≤-27	PASS
			5925~27000	25568.31	-30.67	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5463.42	-40.39	≤-27	PASS
			5925~27000	24294.67	-31.91	≤-27	PASS
		5795	30~5650	3294.28	-40.22	≤-27	PASS
			5925~27000	26570.77	-30.58	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5432.69	-39.56	≤-27	PASS
			5925~27000	26884.79	-31.57	≤-27	PASS
		5785	30~5650	5469.04	-39.51	≤-27	PASS
			5925~27000	24329.1	-31.75	≤-27	PASS
		5825	30~5650	5462.85	-39.59	≤-27	PASS
			5925~27000	23539.49	-31.7	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5462.29	-39.06	≤-27	PASS
			5925~27000	26848.96	-32.08	≤-27	PASS
		5795	30~5650	5399.54	-39.45	≤-27	PASS
			5925~27000	26539.86	-30.64	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5437.94	-40.57	≤-27	PASS
			5925~27000	26528.62	-32.1	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



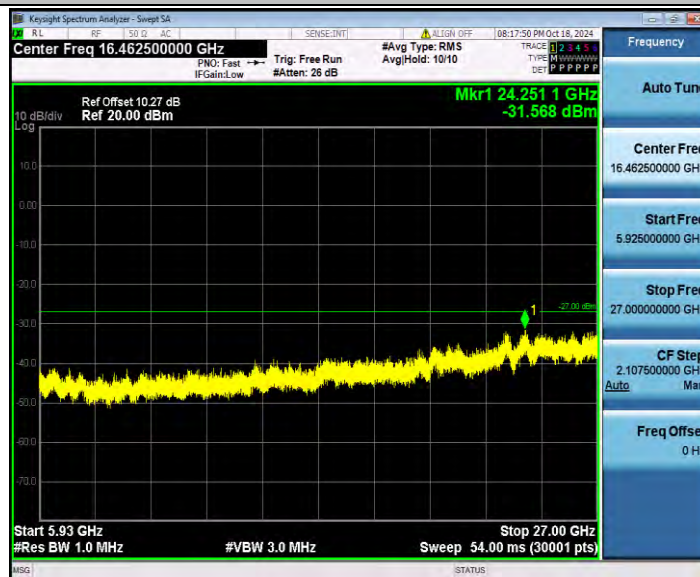
11A_Ant1_5745_5925~27000



11A_Ant1_5785_30~5650



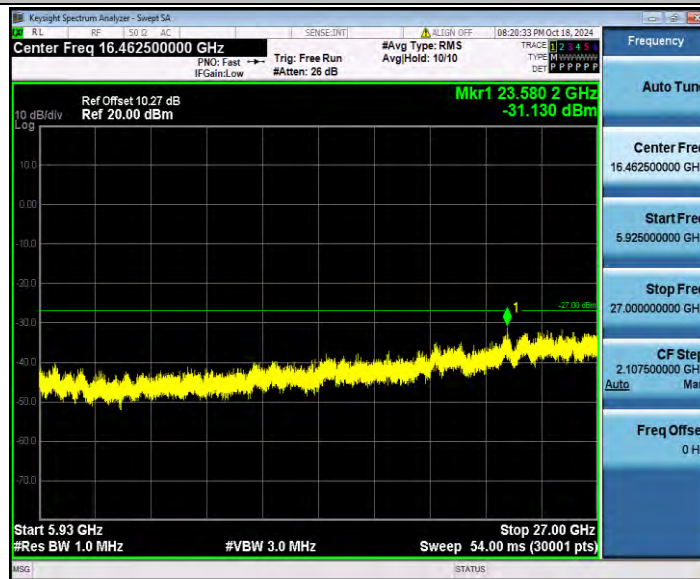
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



11N20SISO_Ant1_5745_30~5650



11N20SISO_Ant1_5745_5925~27000



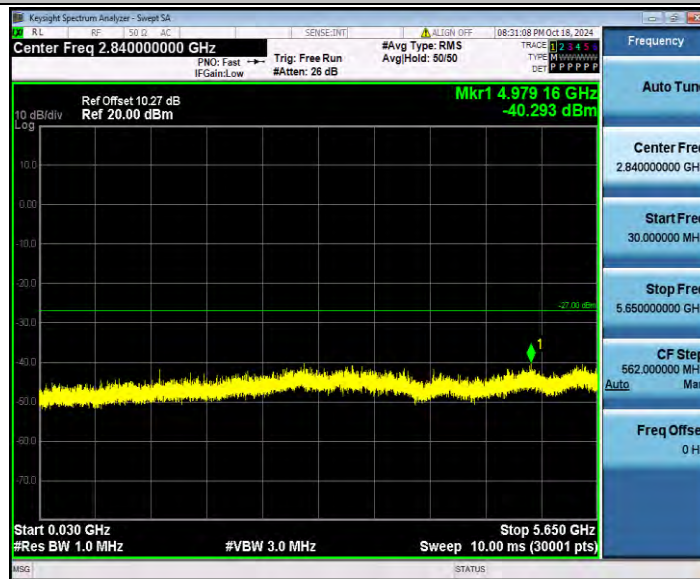
11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



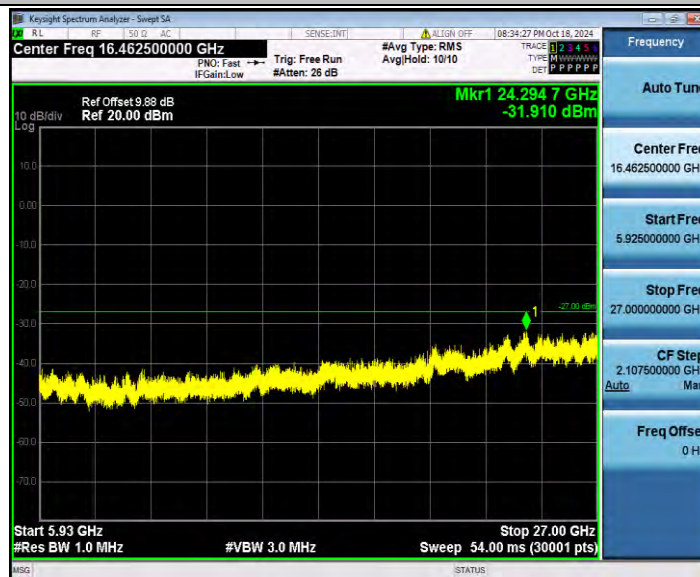
11N20SISO_Ant1_5825_5925~27000



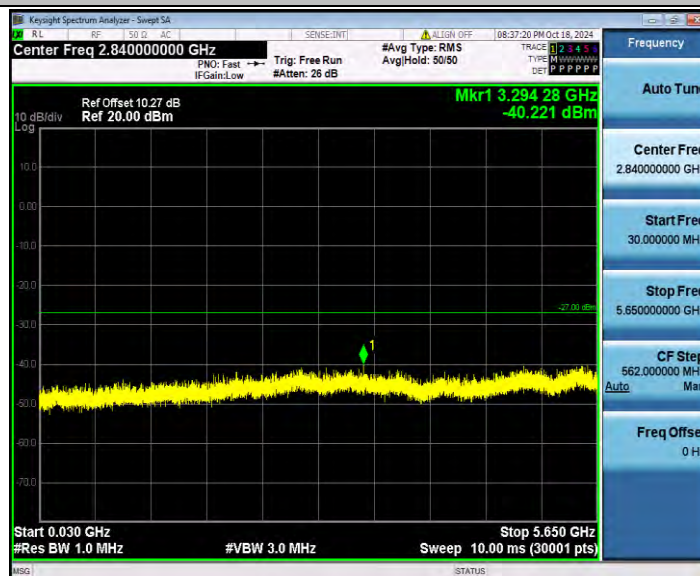
11N40SISO_Ant1_5755_30~5650



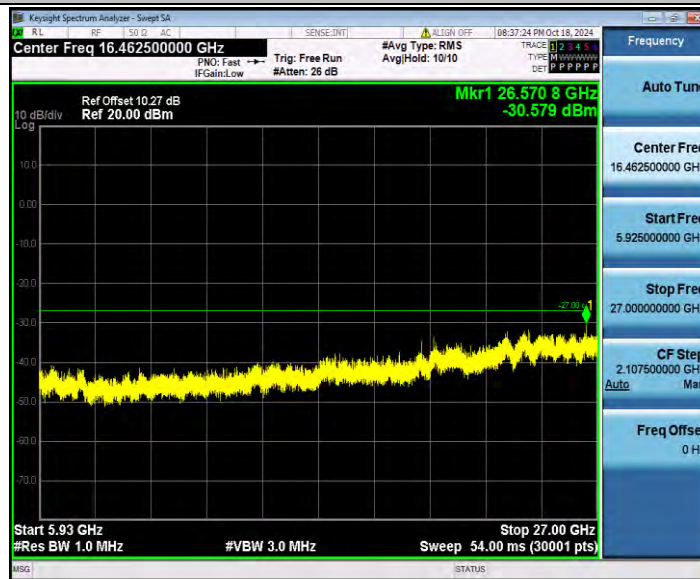
11N40SISO_Ant1_5755_5925~27000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~27000



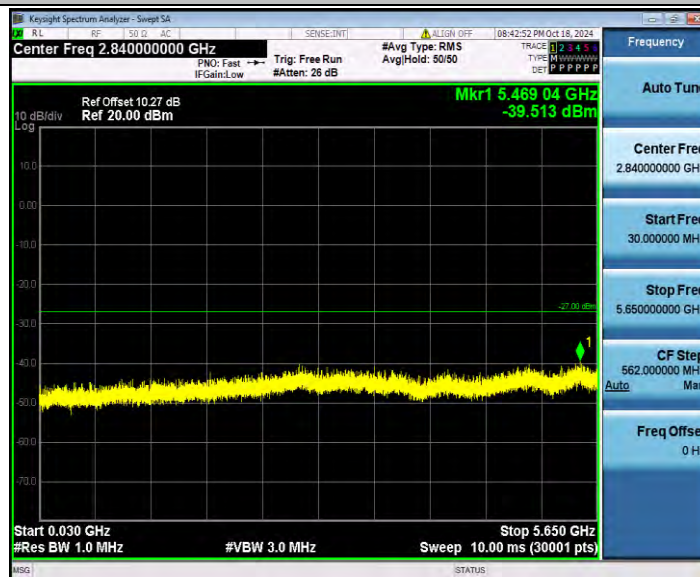
11AC20SISO_Ant1_5745_30~5650



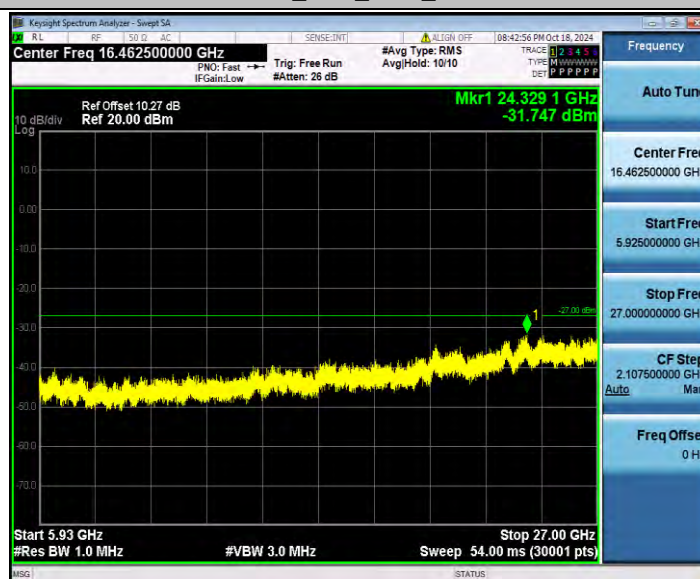
11AC20SISO_Ant1_5745_5925~27000



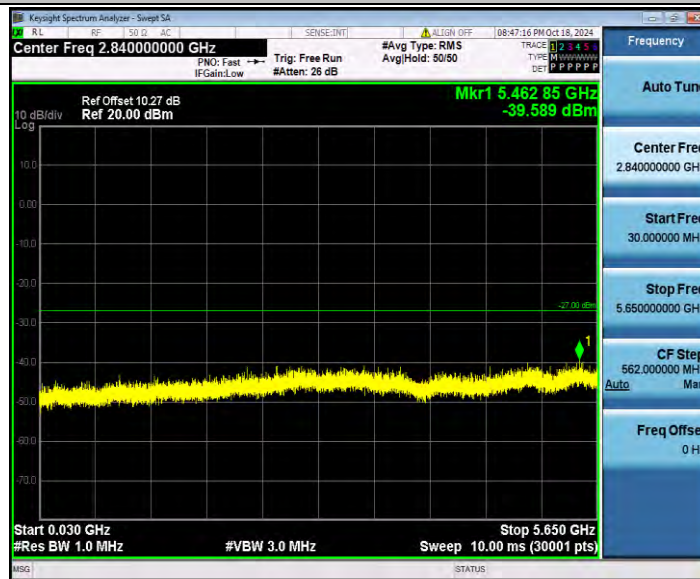
11AC20SISO_Ant1_5785_30~5650



11AC20SISO_Ant1_5785_5925~27000



11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~27000



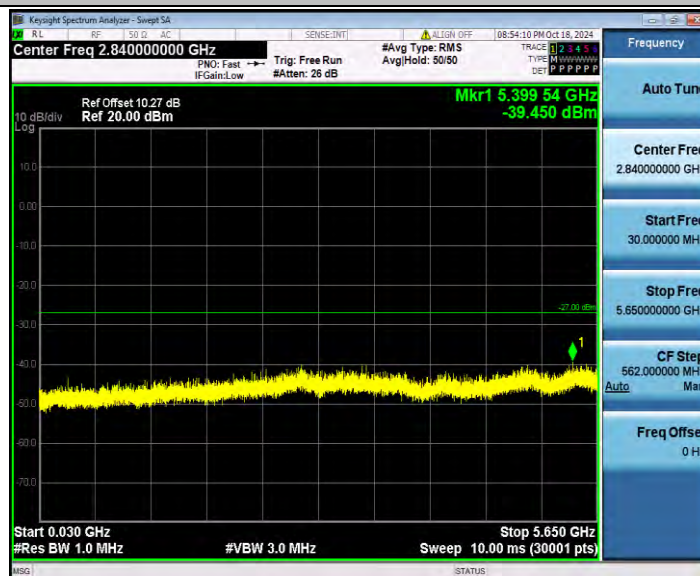
11AC40SISO_Ant1_5755_30~5650



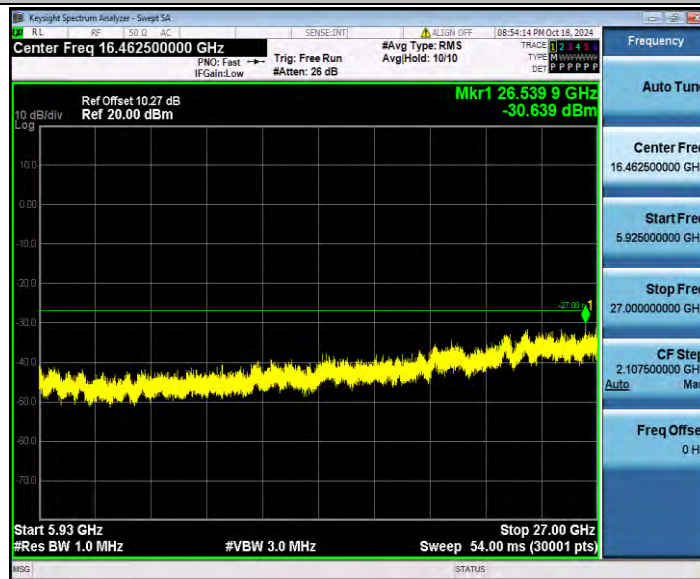
11AC40SISO_Ant1_5755_5925~27000



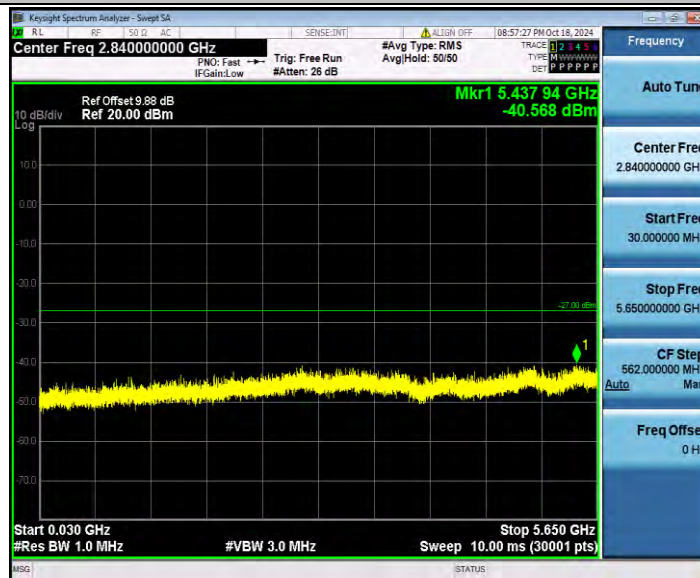
11AC40SISO_Ant1_5795_30~5650



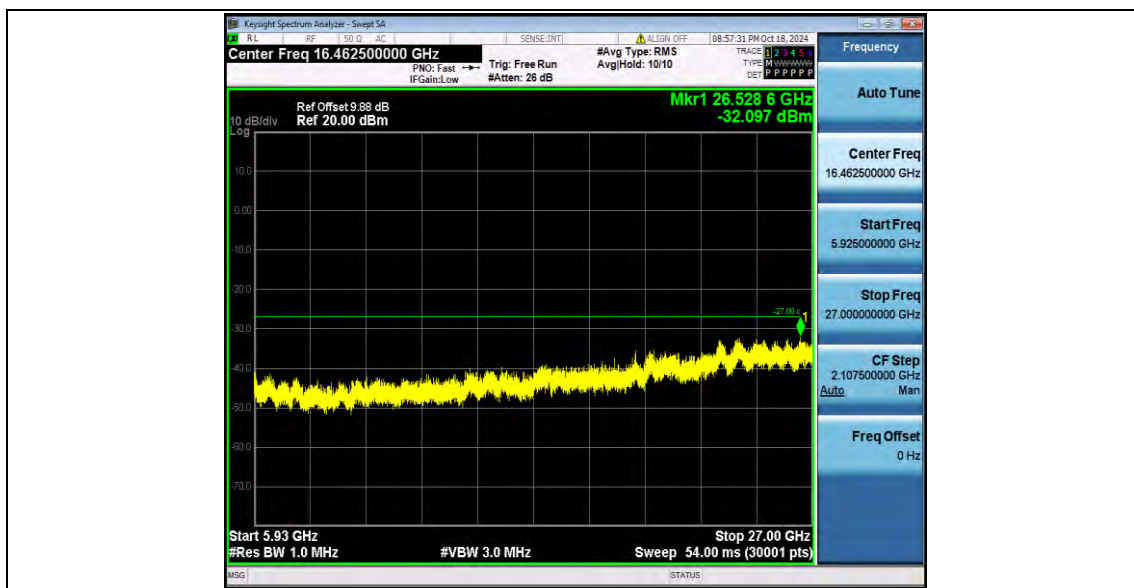
11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

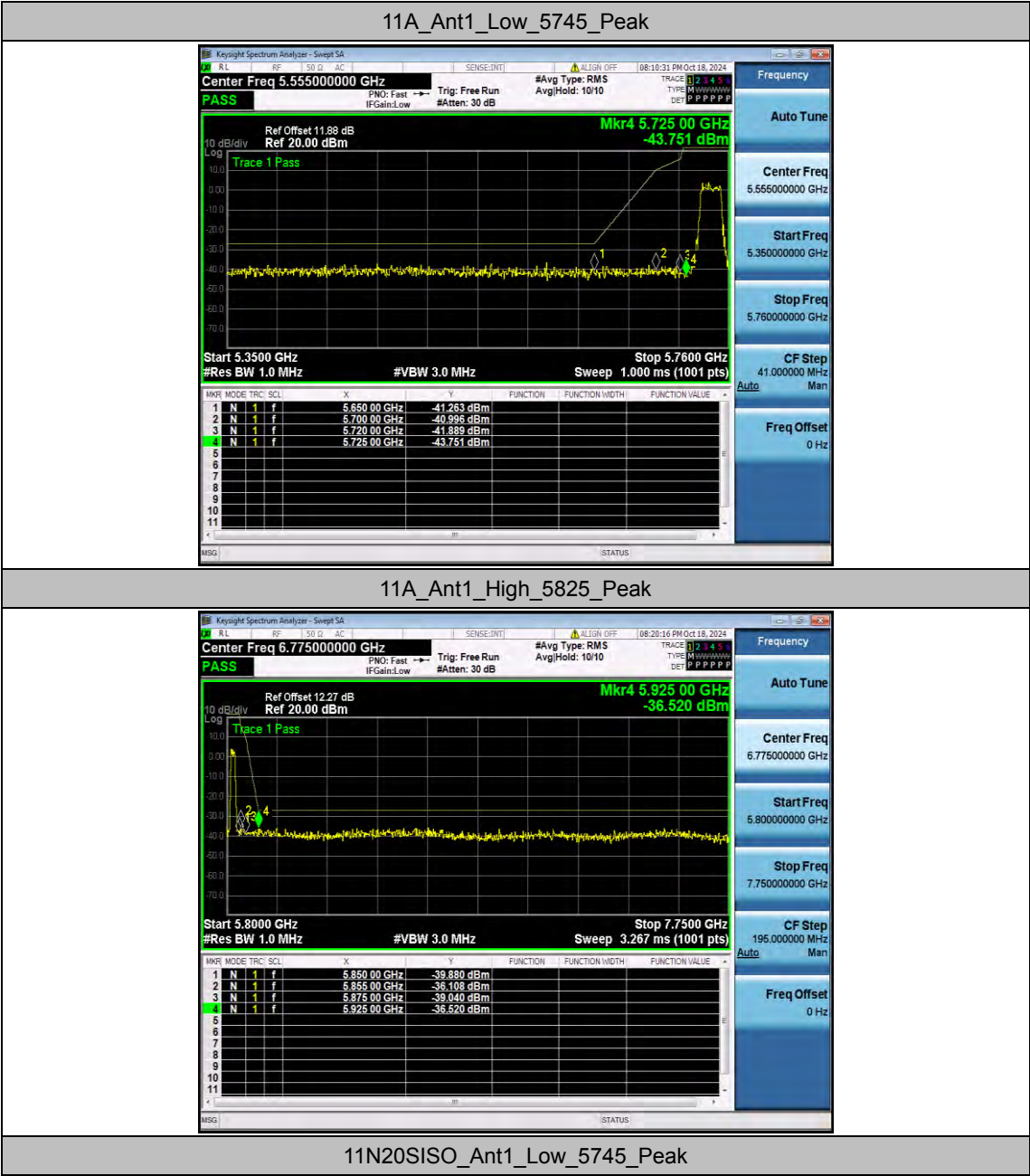
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-41.263	≤-27.00	PASS
				Peak	5700.000	-41	≤10.00	PASS
				Peak	5720.000	-41.89	≤15.60	PASS
				Peak	5725.000	-43.75	≤27.00	PASS
		High	5825	Peak	5850.000	-39.88	≤27.00	PASS
				Peak	5855.000	-36.11	≤15.60	PASS
				Peak	5875.000	-39.04	≤10.00	PASS
				Peak	5925.000	-36.52	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-43.018	≤-27.00	PASS
				Peak	5700.000	-41.29	≤10.00	PASS
				Peak	5720.000	-43.79	≤15.60	PASS
				Peak	5725.000	-41.13	≤27.00	PASS
		High	5825	Peak	5850.000	-38.557	≤27.00	PASS
				Peak	5855.000	-39.77	≤15.60	PASS
				Peak	5875.000	-37.39	≤10.00	PASS
				Peak	5925.000	-38.38	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-43.55	≤-27.00	PASS
				Peak	5700.000	-42.84	≤10.00	PASS
				Peak	5720.000	-43.52	≤15.60	PASS
				Peak	5725.000	-42.86	≤27.00	PASS
		High	5795	Peak	5850.000	-37.593	≤27.00	PASS
				Peak	5855.000	-38	≤15.60	PASS
				Peak	5875.000	-35.99	≤10.00	PASS
				Peak	5925.000	-39.44	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-41.348	≤-27.00	PASS
				Peak	5700.000	-40.36	≤10.00	PASS
				Peak	5720.000	-41.3	≤15.60	PASS
				Peak	5725.000	-42.02	≤27.00	PASS
		High	5825	Peak	5850.000	-36.5	≤27.00	PASS
				Peak	5855.000	-36.62	≤15.60	PASS
				Peak	5875.000	-37.41	≤10.00	PASS
				Peak	5925.000	-39.21	≤-27.00	PASS
11AC40SIS	Ant1	Low	5755	Peak	5650.000	-43.701	≤-27.00	PASS

O				Peak	5700.000	-42.03	≤10.00	PASS
				Peak	5720.000	-41.22	≤15.60	PASS
				Peak	5725.000	-43.16	≤27.00	PASS
		High	5795	Peak	5850.000	-37.691	≤27.00	PASS
				Peak	5855.000	-36.79	≤15.60	PASS
				Peak	5875.000	-38.6	≤10.00	PASS
				Peak	5925.000	-37.85	≤27.00	PASS
11AC80SIS O	Ant1	Low	5775	Peak	5650.000	-42.344	≤27.00	PASS
				Peak	5700.000	-42.28	≤10.00	PASS
				Peak	5720.000	-41.94	≤15.60	PASS
				Peak	5725.000	-40.95	≤27.00	PASS
		High	5775	Peak	5850.000	-36.126	≤27.00	PASS
				Peak	5855.000	-37.51	≤15.60	PASS
				Peak	5875.000	-37.68	≤10.00	PASS
				Peak	5925.000	-36.92	≤27.00	PASS

Note:

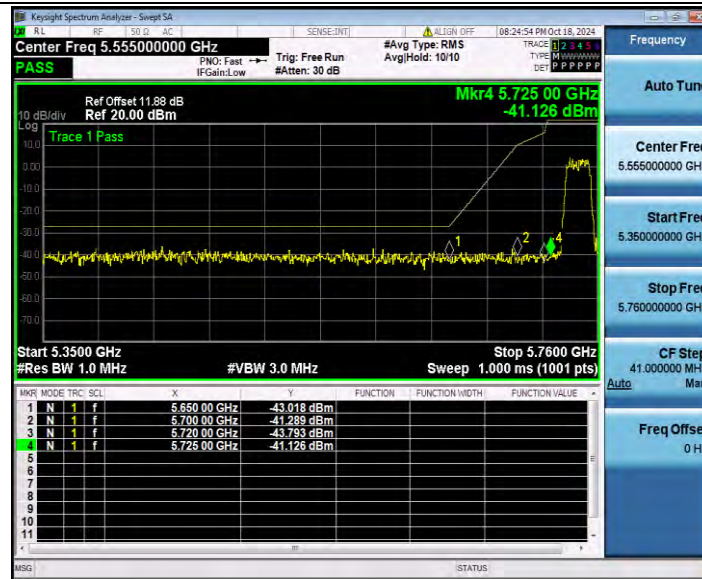
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

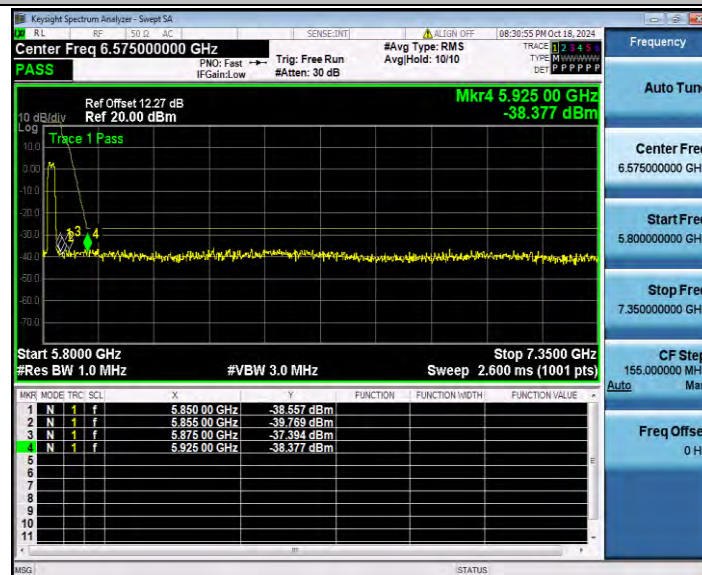


11A_Ant1_High_5825_Peak

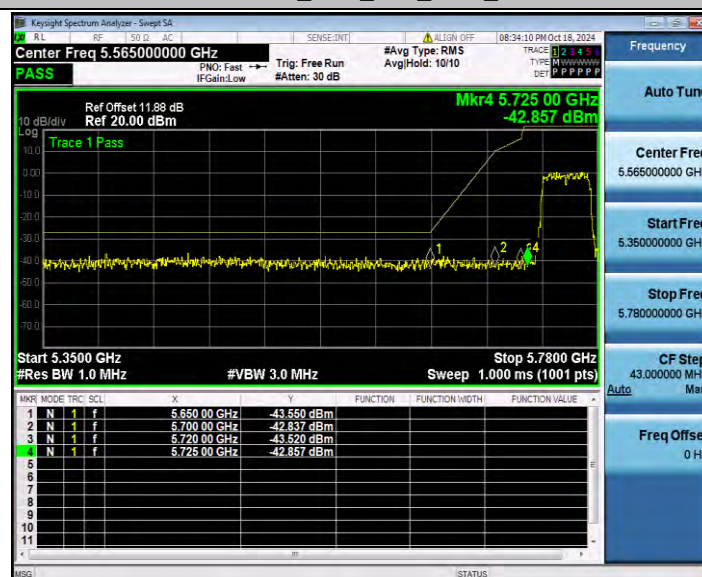
11N20SISO_Ant1_Low_5745_Peak



11N20SISO_Ant1_High_5825_Peak



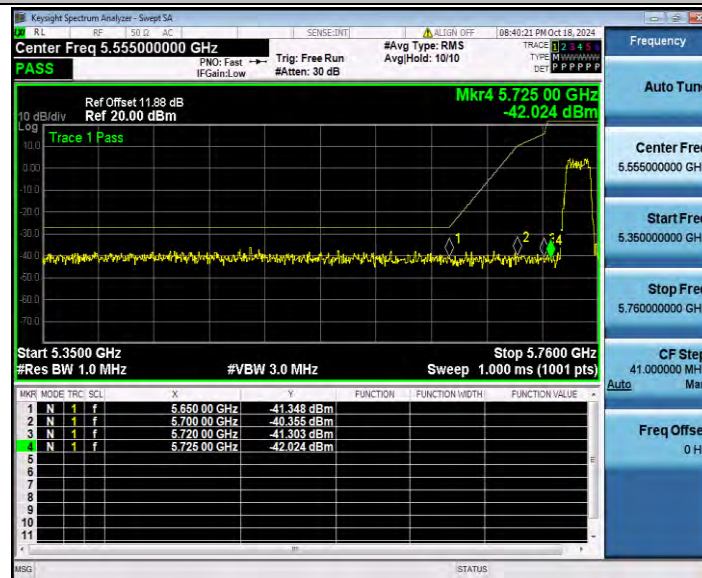
11N40SISO_Ant1_Low_5755_Peak



11N40SISO_Ant1_High_5795_Peak



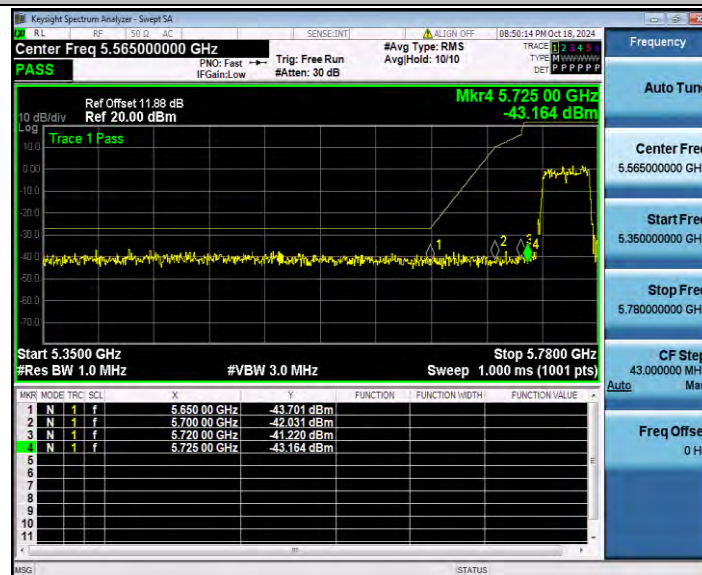
11AC20SISO_Ant1_Low_5745_Peak



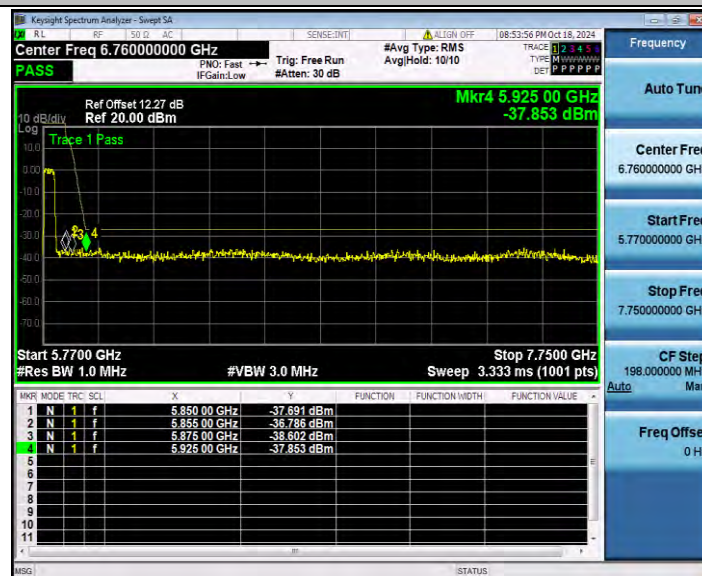
11AC20SISO_Ant1_High_5825_Peak



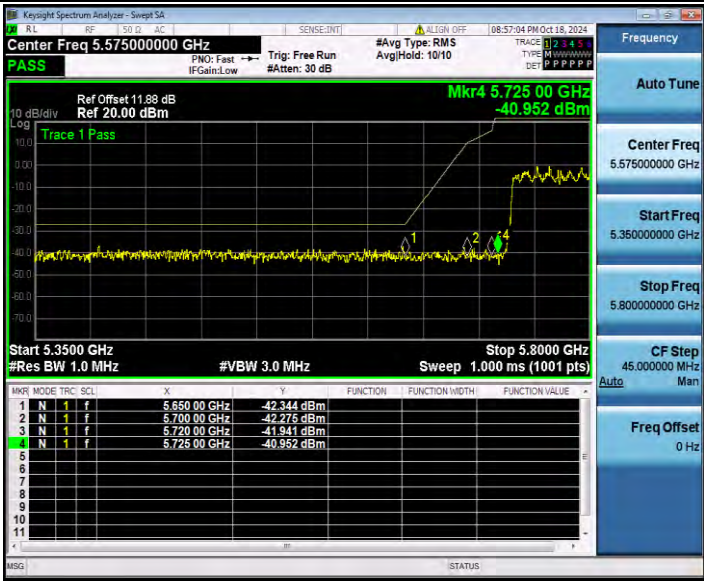
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

